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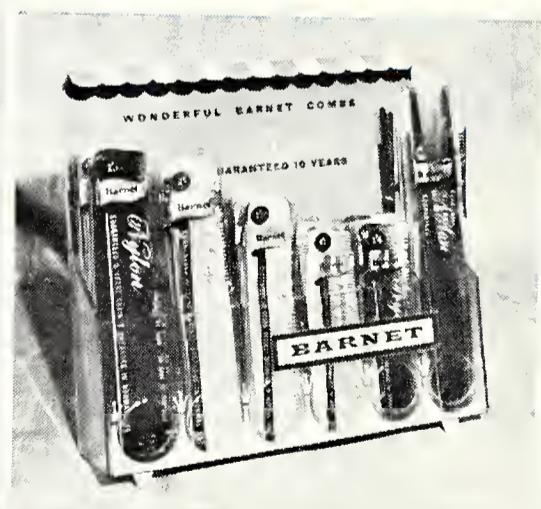
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# THE CHEMIST AND DRUGGIST

ESTABLISHED 1859

The weekly newspaper for pharmacy and all sections of the drug, pharmaceutical and fine chemical, cosmetic, and allied industries

*Official organ of the Pharmaceutical Society of Ireland  
and the Pharmaceutical Society of Northern Ireland*

Volume 175

June 3, 1961

No. 4242

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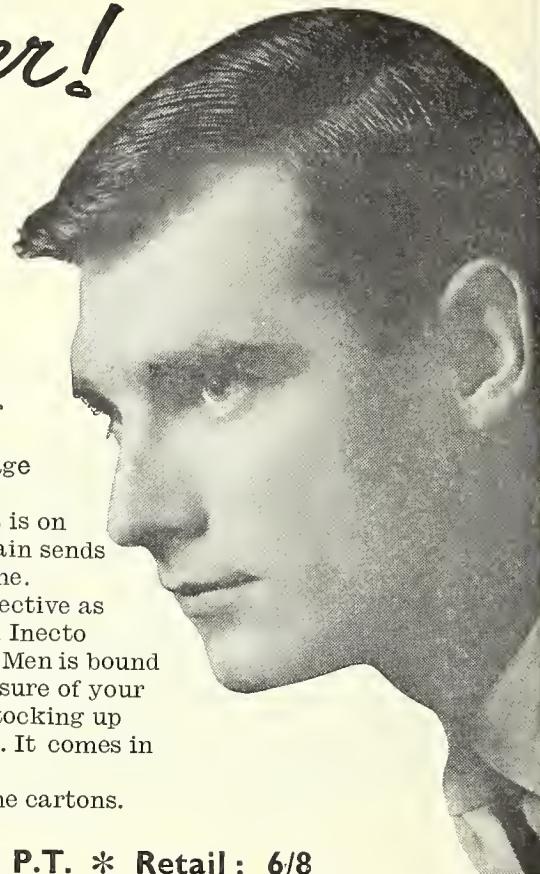
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Volume 175

JUNE 3, 1961

No. 4242

## Strong Action by Contractors

### DEMAND FOR DECLARATION BY MINISTER

THE Central N.H.S. Contractors Committee and the N.P.U. Executive Committee have addressed a strongly worded letter to the Ministry of Health about the application of the 2s. prescription charge (see p. 572).

It is pointed out that the Minister of Health's suggestion that prescribed products valued less than 2s. should be supplied "over the counter" is not in accordance with the National Health Service Act and Regulations. The committees declare that they are not willing to leave the retail pharmacist in the present "indefensible position" and demand that the Minister should declare that the charge is a contribution to the N.H.S. funds.

The N.P.U. Executive has also called for a conference of Pharmaceutical Committee representatives (see Coming Events) to approve a course of action on remuneration.

## Opticians Act, 1958

### OPERATIVE FROM JUNE 1

THE Opticians Act 1958 became fully operative on June 1. It stipulates that only a registered medical practitioner, or registered ophthalmic optician, may test the sight of another person, and the supply and sale of any optical appliance may only be effected by registered persons, firms or companies. The Minister of Health has issued the National Health Service (Supplementary Ophthalmic Services) (No. 2) Regulations 1961 (H.M. Stationery Office, price threepence), revising the qualifications for practice in the service so that only registered opticians and enrolled bodies corporate may be included in an ophthalmic list of an Ophthalmic Services Committee. Another Statutory Instrument, The General Optical Council (Rules on the Testing of Sight by Persons Training as Ophthalmic Opticians) Order of Council, 1961 (H.M. Stationery Office, price threepence), amends the Opticians Act so that persons training as ophthalmic opticians may test sight under the personal supervision of a registered ophthalmic optician or registered medical practitioner.

## E.F.T.A. Import Duties

### SECOND CUTS BEGIN JULY 1

THE second round of cuts in the import duties of the United Kingdom, under the rules of the European Free Trade Association, has been published as a Government Order for introduction on July 1. The cuts will be mainly

of one-eighth to 70 per cent. of the basic rates, which prevailed until the first E.F.T.A. reduction to 80 per cent. was made in July 1960. Exceptions to the general order are certain composite goods containing hydrocarbon oils, where the duties are partly protective and partly revenue, and in which only the protective element will be cut. The Order also reduces on July 1 the full rate of import duty on synthetic methanol from 33½ per cent. to 27½ per cent. *ad valorem*. That was as far as the Board of Trade felt able to go in face of recent applications for the removal of the duty altogether. A further Government Order exempts from import duty, from dates generally between June 1 and October 1, some goods, mainly chemicals, but including certain types of polyurethane monofil yarns and continues temporarily the exemption of certain goods currently on the "temporarily exempt" list for import duty. The goods concerned are naphthalene, phthalic anhydride and high purity manganese metal.

## Centenary at Brighton

### PRESENTATIONS BY ASSOCIATION

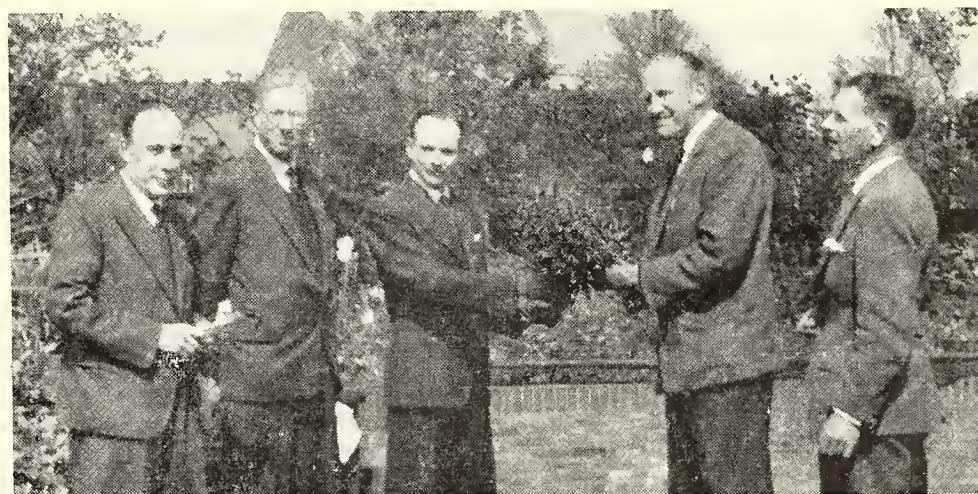
A CONSIGNMENT of aromatic plants was presented to the borough of

Hove for use in the scented garden at St. Ann's Well Gardens, Hove, by the Brighton and Hove Pharmacy Association to mark the occasion of the coming centenary year of the Association on May 5. The plants were sent by William Ransom & Son, Ltd., of Hitchin, Herts. A further consignment from Stasford Allen & Sons, Ltd., Long Melford, Suffolk, was presented on May 13. The parks and gardens department of the borough of Hove are displaying a keen interest in aromatic plants. Later on they will be planting their floral clock with the badge of the Association.

## Co-op Chemists

### PROPOSED CENTRAL RECRUITMENT

DIFFICULTY in filling vacancies for pharmacists was reported in the annual report of the Co-operative technical panel of chemists submitted to the Co-operative Congress at Scarborough. Consideration had been given to establishing a central recruitment bureau for Co-operative pharmacists and a questionnaire was designed and issued to Societies. The replies indicated that, of those Societies undertaking a pharmacy service, 79 per cent. expressed willingness to participate in the scheme, which might be based on the assumption that each participating Society would pay an annual contribution of £5 5s. That would enable a series of large advertisements to be issued setting out in broad terms the attractions of Co-operative pharmacy as a career and inviting pharmacists to contact the Co-operative Union with a view to being put in touch with Societies that had previously stated that vacancies existed. At the moment



Mr. H. B. Olver (president of the Brighton and Hove Association of Pharmacy) presents to Councillor Creswick (chairman of the Hove Parks and Gardens Committee) at St. Ann's Well Gardens, Hove, a bunch of herbs. With him are Messrs. P. E. Stedman (vice-president of the Association) and F. J. Gill (treasurer). With Councillor Creswick is Mr. Hylands (superintendent, Hove parks and gardens department).

there were seventy-two vacancies for qualified pharmacists among 107 Societies. All those vacancies would come within the scope of the scheme. From the same 107 societies, in addition to the existing vacancies there would be sixty-three further vacancies arising within the next five years on account of the operation of age-limit rules. Details of the scheme are still under review.

## Traffic Problems

### EFFECT ON DISTRIBUTIVE TRADES

A NATIONAL protest meeting dealing with the multiplying problems of traffic, its control, and disturbing effect upon the established pattern of the distributive trades is to be held in the recital room at the Festival Hall, South Bank, London, S.E.1, at 11 a.m. on June 14. The meeting will be under the auspices of the National Chamber of Trade supported by a number of road and transport organisations. The organisers state that the Minister of Transport and his department were largely absorbed with the single aspect of "traffic flow" and were subordinating other interests to achieving improvements in that direction. More and more restrictions of all kinds were being imposed upon goods and other vehicles which were stopping or waiting in the normal course of business. They contend that the Minister and his advisers appear to be disregarding the cumulative effect which the continued restrictions will have upon long established business houses, shopping thoroughfares and the commercial community. It is proposed to invite the Minister of Transport and the Minister of Housing to attend the meeting where it is hoped to ventilate the whole subject of traffic control and to put to the Government the viewpoint of those who will be represented at the meeting "before further regulations make business life even more difficult, and so that there can be a reappraisal of the whole subject."

## Discussions on Polio

### PROFESSOR SABIN VISITS ENGLAND

DR. A. B. Sabin, who devised the oral poliomyelitis vaccine bearing his name, paid a brief visit to London for informal talks at the Ministry of Health on May 25. He presented up-to-date information, as yet unpublished, on the results of oral vaccination in different parts of the world. He later said that,

at the end of 1960, 100 million people had been vaccinated with the orally effective living virus, and he estimated that another 50 millions had received the vaccine during the past spring. He saw no scientific reason why the Salk injection should be retained provided sufficient of the oral preparation were available.

## SPORT

**Golf.**—**IRISH CHEMISTS' GOLFING SOCIETY.** The annual four-day outing took place at Rosslare from May 14-17. Highlights of the event were the president's trophy on the second day, and the captain's prize on the concluding day, which was taken by John Hanley of Limerick after two competitions which produced golf of a high standard. Final night was given over to the dinner which was presided over by the Society's captain, Mr. J. T. Foley. Guests included Mr. A. F. Thornton (president of the Irish Drug Association) and the captain (Dr. Keenan), and secretary (Dr. French), of Rosslare Golf Club.

May 14. *Results: I.C.I. prizes*, M. Costello, Dublin, (15), 68; M. L. Cashman, Dublin (13), 70; *Bogey*, P. Twohig, Dublin (17), 2 up; P. Garahy, Enniscorthy (12), all square. *1st nine*, A. Cullinane; *2nd*, D. Mulvey;

**A CHAMPION AMONGST THEM:** Northumberland and Durham Chemists' Golf Society members moving off for the start of the Society's spring championships at Durham City Golf Club on May 17. At the front of our picture, carrying his club, is the captain (Mr. H. Y. Calvert, West Hartlepool).



May 15, *President's Day, Bogey, President's trophy*, P. Fahy, Tullamore (9), 5 up; P. Foley, Drogheda (12), 3 up; A. Walsh, Dublin (9), 2 up; T. J. Lynch, Dublin (6), all square; *Strokes*, D. McHugh, Athy (10), 66; F. Pierce, Wexford (16), 69; J. Hanley, Limerick (6), 71; *Class 1*, P. Delaney; *Class 2*, M. Moloney; *Class 3*, E. McManus;

May 16, *Singles Bogey, Class 1*, J. Hanley, Limerick (6), 1 up; D. Mulvey, Dublin (6), all square; *Class 2*, M. L. Cashman (12), 1 down; M. Costello (13), 1 down; *Class 3*, J. B. O'Connor, Dublin (22), 5 down; C. Collis, Dublin (18), 6 down;

May 17, *Captain's Day, Captain's Prize*, J. Hanley (5), 70; J. Lennon, Dublin (8), 72; F. O'Brien, Cork (13), 72; J. O'Keeffe, Dublin (24), 73; D. McHugh, Athy (8), 73; *Bogey*, A. Hensey, Dublin (16), all square; D. Mulvey (5), do; M. Prendergast, Cork (5), 1 down; R. Daly, Cork (6), 2 down; *Class 1*, John Burke; *Class 2*, Kevin Banks; *Class 3*, J. B. O'Connor.

40; 2, R. E. Duckett, Betchworth, 38; 3, W. Baldock, Croham Hurst, 37. *Bobby Locke trophy* (18 and over handicap). *Results: 1*, J. Widock, Coulson, 39. *Special prizes*, best score on first nine holes, G. Stanton, Blackheath; best score on last nine holes, A. Wilson, Shirley Park *Visitors' prizes*, Dr. J. Gordon, Richmond, 38; J. J. Webster, Wanstead, 35.

**Car Rally.**—The eleventh car rally of the Romford Branch of the Pharmaceutical Society, now a regular annual feature, attracted an entry of thirty-six cars. Branch members showed their enthusiasm by relegating the first of the fifteen visiting entries into fifth place. Inclusion of Tolleshunt D'Arcy and Wickham Bishops increased the route to seventy-three miles, but the extra distance was more than compensated by the countryside in bright sunshine. Safe speed and time, together with clue solving, represented the competitive angle. The winner was Mr. R. W. Slawson, with Mr. T. Clark second, and Mr. L. Norwich third.



**SCOTTISH CHEMIST GOLFERS AT FORTIETH ANNUAL COMPETITION:** Left, Messrs. James White, Glasgow; G. Doherty, Lennoxtown; and N. Freedman, Glasgow, check score cards. Centre, Committee of the Scottish Chemists' Golf Association: Messrs. Hugh Campbell (secretary); Alex. Scott (convener) and W. M. Laurie. Right: Messrs. W. M. Jamieson, Newton Mearns; A. Scorgie and G. Smith, both of Paisley; and J. MacPherson, Barrhead.

Photographs by Marshall Sloan (Cow & Gate, Ltd.).

**SCOTTISH CHEMISTS' GOLFING ASSOCIATION**

The fortieth annual golf competition was at Gleneagles on May 10. *Results: Travel Trophy*, 1, J. Sibbald; 2, R. L. Flockhart, W. Robb; 4, W. Laurie, Cox's Silver Salver, J. Goodchild; 2, J. McMillan; 3, A. S. Bannerman, Pinkerton Gibson Prizes, 1, C. Reid; 2, W. P. Martin; 3, D. H. Cook, W. G. Angus, Wholesale Houses Trophy, N. Panton; 2, D. K. Smith; 3, I. Logan, D. M. B. Lindsay, John Grieg Bogey 1, C. Ireland; 2, G. V. Cooper, Johnson, Johnson Veterans' Cup, W. C. Macmaster, Prize, 1, G. F. Grant; 2, W. B. Thomson, Stableford Competition, 1, E. Scorgie; 2, Church, Duncan Flockhart Scratch Prize, 1, Adamson; 2, R. H. Low, Bogey Prize (Quee J. Gibson, Gibb's Trophy (Zone 1), 1, Laurie; 2, J. Sibbald; 3, W. Robb; 4, A. S. Bannermann, Runners-up (Zone 2), 1, J. Goodchild; 2, J. A. Stenhouse; 3, W. G. King, W. B. Thomson, Consolation, 1, A. P. Gordon, 2, G. Adam, Hidden Holes, 1, W. F. Stewart, 2, J. Hosie.

**SOUTH LONDON AND SURREY PHARMACISTS GOLFING SOCIETY.** Over sixty members visitors attended the meeting at Croham Hill Golf Club on May 17. A Stableford competition was played for the *Widocks Memorial trophy*. *Results: 1*, J. F. Needham, Effingham

## NEWS IN BRIEF

ON April 18, the Ministry of Labour official retail price index figure was 3.3 compared with 112.7 in March (January 17, 1956 = 100).

FACTORIES and research stations of the Distillers Co., Ltd., are giving displays and exhibitions during Commonwealth Training Week, May 29 to June 4.

A SMASH-AND-GRAB raider escaped with four cameras worth £11 after hurling a brick through the window of the pharmacy of Mr. R. W. Robertson, P.S., 28 Victoria Road, Margate, Kent.

THE Isles of Scilly (National Health Service) Order, 1961 (H.M. Stationery Office, price twopence), that came into operation on May 16, extended the National Health Service Acts, 1952 and 1961, to the Isles of Scilly.

BIRMINGHAM Executive Council has rejected a plea from the City Council's Health Committee which urged that dispensing chemists should remain open until 8 p.m. during the winter months. Further inquiry is to be made.

A SERVICE that is being introduced by the Post Office on June 1 will enable customers to forward parcels to manufacturers and others without having to pay the postage. Called the postage forward parcel service, it will operate in the way the existing business-reply service does for letters.

THE Ministry of Health Building Note No. 2 (H.M. Stationery Office, price 4s.) deals with the cost of hospital buildings. It aims to replace existing methods of assessing the cost of hospital buildings by a method which relates the cost of each department to its functional unit.

THE Meldola medal for 1960 has been awarded by the Council of the Royal Institute of Chemistry to Dr. J. N. Bradley, for his work in the field of physical chemistry. The medal is a gift of the Society of Maccabaeans, and is awarded each year to a British chemist under thirty years of age (at December 31) who shows the most promise as indicated by a published work.

## LOCAL OFFICERS

NATIONAL PHARMACEUTICAL UNION  
Epsom, Sutton and District Branch.—Chairman, J. R. Miles; Vice-chairman, R. B. Summers; Social Committee-chairman, C. Crookes; Social Secretary, C. H. Heard, 7 The Pavement, Sutton; Secretary and treasurer, W. S. C. Coleman, 147 Cobham Road, Fetcham, Leatherhead, Surrey.

PHARMACEUTICAL SOCIETY  
Isle of Wight Branch.—Chairman, H. H. Gould; Vice-chairman, W. Tait; Treasurer, J. V. L. Richards; Secretary, W. P. Hogan.

Portsmouth Branch.—Chairman, W. Francis; Vice-chairman, M. J. Woolgar; Treasurer, G. Bradford; Secretary, W. H. P. Clarke.

West Hertfordshire Branch.—Chairman, Mrs. J. V. Webb; Vice-chairman, G. Dyson; Treasurer, J. M. Wilyman; Programme secretary, J. Fox, 14 Ravensdell, Hemel Hempstead, Herts; Secretary, R. M. Barrett, 3 Leverstock Green Road, Hemel Hempstead, Herts. Tel.: Boxmoor 752.

West Kent Branch.—Chairman, L. S. Short; Vice-chairman, Mrs. I. M. Z. Elliott; Treasurer, A. W. Jutton; Assistant secretary, B. Mendelson; Secretary, W. E. Walton, 184 High Street, Penge, London, S.1.20.

## TOPICAL REFLECTIONS

By Xrayser

## Branch representations

The meeting of Branch Representatives, held in London on May 18, was marked by a number of important incidents (p. 538 *et seq.*) and, viewed in retrospect, one cannot but be impressed by the increasing sureness of touch of those entrusted to keep the Council of the Pharmaceutical Society informed on current opinion. It is right that there should be such a platform, and the Council should welcome the increasing evidence that there is perhaps less apathy than had been thought. Add to that the shock treatment meted out by the electorate a week or two ago, and one has the feeling that the Council is left in no doubt of the importance of translating the members' wishes into action, or of adducing very good reasons why they feel they cannot do so. It must be some little time since *Jenkin v The Pharmaceutical Society* was taken down, thoroughly dusted and given an airing, and I fancy that all concerned—the Council, its officers, and all attending the meeting, are now better informed about Jenkin and his scope than at any time since 1920. For the exposition on the effects of the judgment, given at length by Mr. Adams, it appears that the Society has ample scope for manoeuvre, and the acceptance by the meeting of those resolutions—those of Bedfordshire, West Herts and Portsmouth—touching on the Jenkin case, gives the Council authority to act or to press for action in matters that have been thought to be scarcely within the Society's province. Mr. Keith Jenkins put the position very clearly when he drew attention to the fact that the Jenkin judgment was given when membership of the Society was not compulsory; when retail pharmacy was less professional than it is today, and before the advent of a National Health Service. All of those changes demanded a reassessment of the situation. The membership has been disturbed by recent events, and has left the Council in no doubt over its concern. There does not appear to me to be need for a further new organisation, nor for a further test case. There is need for close co-operation between existing bodies, and the subject is one that deserves early and thorough examination.

## Internal examinations

Further evidence of the vital importance of Branch Representatives' meetings was forthcoming in the alacrity with which Mr. C. H. Preston Robinson pounced on a remark of the president (Mr. T. Reid) with regard to internal examinations in colleges. There has been what has appeared to be almost a conspiratorial silence since the matter was first mentioned at the Council table and briefly reported about two years ago. On that occasion there was suggested the possibility of the introduction of diplomas in technology, with internal examination, and at that time the Education Committee of the Council was reported to have discussed the general principle on internal examinations in schools of pharmacy. Mr. Maples Thorpe, on that occasion, said that the suggested new diploma, with internal examination, raised important problems, but a first step might be to make all schools of pharmacy examination centres for the Society's diploma, a step that would have the advantage of enabling students to work in the surroundings that were familiar to them (C. & D., June 20, 1959, p. 600). Since then there has been a lack of information, but Mr. Robinson's raising of the matter brought from Mr. Adams an assurance that branches would be consulted before action was taken. A statement of the facts in the annual report would have made the speaker's speculation unnecessary.

## Ethical matters

Recalling the sequences of events which led to the Pharmaceutical Society's belated protest to the Minister of Health on his attitude towards the 2s. prescription levy, I am left with the feeling that Sir Hugh Linstead's interpretation of the sorry story only underlined the urgent need for the Society to re-examine its obligations in ethical matters, whether concerned with the National Health Service or not. In his explanation of his part in the affair he may have convinced himself. He failed to convince me.

# Chelsea's Open Evening and Prize-giving

## SOUTH-EAST METROPOLITAN BRANCH AS GUESTS

CHELSEA School of Pharmacy has adopted the agreeable practice of making members of a Branch of the Pharmaceutical Society its special guests at its annual prize-giving and of staging special exhibits and demonstrations for their benefit and that of parents and others. This year it was the turn of South-east Metropolitan Branch, who—the pharmacists amongst them—spent an educative and perhaps nostalgic evening comparing present-day student activities with their own.

### "Open Evening" Highlights

Exhibits under the heading "Pharmaceutics" dealt with (I) PHYSICAL ASPECTS OF PHARMACY (apparatus for measuring the flow properties of ointments and suspensions; for particle-size analysis; for investigating insoluble films at air/water surfaces; and for separating mixtures); (II) SMALL-SCALE MANUFACTURING EQUIPMENT (various mills, a climbing-film evaporator; metafiltration apparatus; a demonstration of tablet making by students; and an ultrasonic emulsifier); (III) THE DISPENSARY (demonstrations by students and exhibits of dispensed preparations); (IV) RADIOISOTOPE EQUIPMENT; and (V) MICROBIOLOGY (a high-speed centrifuge; freeze-drying apparatus; and a phase-contrast microscope). A pharmaceutical chemistry display dealt with gas-chromatography, the mercury vapour pump, a hydrogenator, an automatic fraction collector (chromatography), an Aminco-Bowman spectrophotofluorimeter, paper and column chromatography, and centrifuge with refrigeration.

A book of words (duplicated sheets stapled between gilt-titled blue covers) describing the exhibits in the pharmacognosy department would form an admirable pattern for introducing pharmacy as a whole at careers exhibitions. After a list of rooms in which exhibits were staged, and a "who's who" of the staff responsible for them, it explained in simple terms the meaning and scope of the subject and its relation to food and drug standards. Classical pharmacognosy, it explained, dealt with the botanical and chemical nature of crude vegetable drugs with a view of their evaluation and was the basis for much of the course in the subject for the Pharmaceutical Chemistry Qualifying examination and Part I of the B.Pharm. degree. Modern pharmacognosy, a recent development of the subject, dealt with the living plant rather than the dead drug, and was therefore concerned with factors affecting plant growth and development. Pharmacognostical research fell into the same two categories.

The memorandum then went on to list and describe the individual exhibits, which included old herbals and books; the school's museum collection of crude drugs, fibres and surgical dressings (about 4,000 specimens); a small collection of drug jars and mortars, and other historical items such as a blood-letting scarifier, bleeding knives, and "patent" medicines, with examples of

crude drugs in one display, their main constituents and synthetic agents based upon natural products (for example: coca, cocaine and local anaesthetics; cinchona bark, quinine and the anti-malarials).

The evening's more formal proceedings began with a review by the head of the school (Dr. A. H. Beckett) of its progress and aims. The intake of students at the beginning of the session had been forty-eight in the B.Pharm. Course and twenty-four in the Ph.C. Course. There would be a change next year, because the unwelcome decision to discontinue Ph.C. courses had had to be taken. He did not think that the present specialist degree was the best approach to the training of the general practitioner in pharmacy, and if no change took place in that, and space allowed, Chelsea would take on Ph.C. students again. During the year thirty-four students had passed Part I and thirty-two Part II, seven with honours. The policy at Chelsea was that students should come in contact with retail, hospital and industrial pharmacy, and their organisation allowed industry to see the students, arranged visits and helped to place students in posts. On the post-graduate side the school had increased in strength. Over twenty research papers had been presented, and five students in pharmacy, two on the physiology side had gained Ph.D. degrees. Chelsea students had gained Department of Science and Industrial Research and Medical Research Council scholarships, Pharmaceutical Society awards and London County Council industrial scholarships. The strong emphasis on research in chemistry had become balanced by increased research activity in physics and chemistry. In the future the three main pillars would be medicinal chemistry (already work done at Chelsea was making a big impact in Britain, Europe and indeed the world); in drug metabolism; and in the physical aspects of drugs. Post-graduate workers

were coming from many countries. Many, alas, had to be turned away but there were students from Ghana, Nigeria, India, Thailand, Egypt. The school's industrial associations were increasing with the volume of the work done. A feature of the school was pharmacy extension lectures, which were part of an attempt to integrate various sides of pharmacy and provide a meeting place for pharmacists. Courses had been provided in medical chemistry, economics, presentation, packing, and analytical techniques. There were now thirty-five members of the staff in the pharmacy department and nine in the department of physiology and pharmacology. Some of the staff, including himself, had been on important visits overseas (to Ghana, Nigeria, the Far East, behind the Iron Curtain). Many played a part on committees outside the school and in local organisations, and he refuted any idea that they were "just academic" or divorced from real pharmacy. Only one thing stood in the way of further progress: shortage of accommodation. There was in prospect a hostel for students of the school, and it was hoped that at some stage every student would be able to spend one year of the three-year course "in residence".

The prizes were presented to the winners by MR. J. WRIGHT, a former student, president of Chelsea Pharmacy Association and assistant secretary of the National Pharmaceutical Union. The prize list was:

FIRST YEAR: *Western Pharmacist* prize: Miss M. A. Robertson; *Boots* prize: Miss E. Pegler; *Timothy White & Taylors* prize, and *Parke, Davis* prize in pharmacognosy: J. P. Harwood.

SECOND YEAR: *Pfizer* prize: M. Rowland; *Boots, Timothy White & Taylors*; *Evans* and *Squibb* prizes: Mrs. G. Yarham.

THIRD YEAR: *Boots and Timothy White & Taylors* prizes: J. W. Swarbrick; *Ciba* prize: Miss J. L. Sharp.

## MANUFACTURERS' ACTIVITIES

**Twenty-five Years' Service.** — Mr. F. A. Fiske (a senior representative covering the Southampton, Portsmouth and Hampshire area, for F. W. Hampshire and Co., Ltd., was presented with a chiming clock by Mr. E. J. Moseley (chairman and managing director), to mark the completion of twenty-five years' service with the company.

**Available for Evaluation.** — Trimethylorthoformate is now available for development evaluation from F. W. Berk & Co., Ltd., 8 Baker Street, London, W.1. The substance, which is also known as methyl orthoformate, trimethoxymethane and methylester of orthoformic acid, resembles acetals in its properties. It is expected to be of special interest to manufacturers of drugs and pharmaceuticals, perfumes, photographic materials, etc.

**Office Block Completed.** — A new office block which was recently com-

pleted at the factory of Thompson & Capper, Ltd., Speke, Liverpool, 24, is part of a series of extensions which have taken place over the last few years to give the company a bigger production capacity. The company state that the office block, with some of the latest techniques and finishes, was necessary to keep pace with the greatly increased number of customers with whom they are dealing.

**At Moscow.** — Two hot-water bottles from the Dunlop range, the Maxfort and the BBM size 3, are being shown at the company's stand at the British Trade Fair, Moscow (May 19-June 4). — Quickfit & Quartz, Ltd., are showing their range of laboratory equipment, while Marchon Products, Ltd., are displaying models of parts of the two fatty-alcohol plants to be built in Russia for which they have obtained a contract in association with another company.

# International Photo-cine Fair

CAMERAS: PROJECTORS: ACCESSORIES: FILMS: SERVICES

IE most comprehensive display of photographic and cine equipment ever held in Great Britain was provided over 100 exhibitors at the Photo-Fair at Olympia, London, May 20 to June 3.

Cameras were, as usual, the central feature at the majority of stands. SFA, LTD., 27 Regent Street, London, W.1, included in their display the new automatic Optima IIIS camera (35-mm., coupled rangefinder) in addition to the recently introduced Isoly range. The new single-lens reflex camera, the Swaflex E, was featured by AMPLION, LTD., 175 Cricklewood Lane, London, W.2. The range of Minolta cameras (distributors: JAPANESE CAMERAS, LTD., Piccadilly, Stoke-on-Trent) has been extended by the addition of automatic "EE" models — the SR-1 and SR-3.



### Voigtlander "dynamatic" camera.

-mm.), and the 16 II (subminiature). They were shown by the manufacturers, IYODA, Osaka, Japan. Among the 16 cameras on view at the stand R. F. HUNTER, LTD., 51 Gray's Inn Road, London, W.C.1, was the new wide-angle Rolleiflex. ILFORD, LTD., Ilford, Essex, included in their display rollfilm Sporti cameras and the best in the Sportsman 35-mm. series he Sportsmaster. Two Voigtländer models were featured by JOHNSONS OF LONDON, LTD., Hendon Way, London, W.4: the Dynamatic II and the 35-mm. with Color Skopar and Prontor L-K shutter).

Products shown exclusively to dealers KODAK, LTD., Kingsway, London, C.2, included the Flashmite, Bantam orsnap 3, Starmite and Reflex III cameras—all to be introduced in the near future. MAYFAIR PHOTOGRAPHIC PLIERS, 166 West End Lane, London, N.W.6, showed a range of Japanese cameras, including the new Petri and Petri "compact E" models; the "compact E" gives 72 exposures on 35 mm. film. The Fujita SQ camera, made by the same company, is a

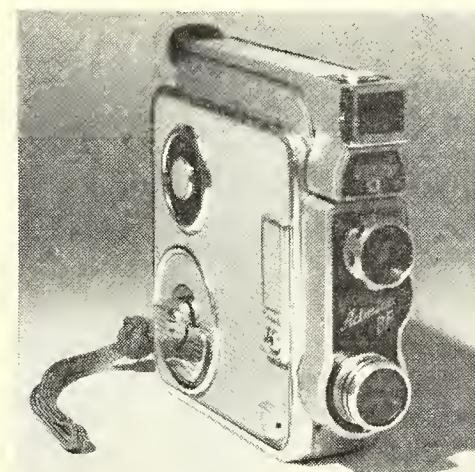
6 cm. single lens reflex model incorporating an instant return mirror. Other reflex camera also shown was Komaflex-S, which produces 12 pictures 4 x 4 cm. from 127 film. **HOTAX (LONDON), LTD.**, 1 Charlotte Street, London, W.1, featured the latest

addition to their range of Yashica cameras; the new Campus is a 35-mm. model. PULLIN OPTICAL CO., LTD., Ellis House, Aintree Road, Perivale, Greenford, Middlesex, displayed the Olympus auto-eye 35-mm. camera, another Japanese model. It has a 4-element f/2.8 Zinko lens, and ten shutter speeds from 1 to 1/500 sec.; the frame finder is corrected for parallax error. Claimed the lowest priced all-metal 35-mm. camera, the Halina Pet, was exhibited by J. J. SILBER, LTD., 40 Lamb's Conduit Street, London, W.C.1, alongside another new model, the Baldwinette II.

## Cine Cameras

The first 8-mm. sound cine camera, the Fairchild Cinephonic, was shown with its companion projector by ADEMCO, LTD., 26 Stamford Street, London, S.E.1. Another 8 mm. camera with provision for sound recording was shown by JOHNSONS OF HENDON, LTD. It was the Eumig zoom reflex model C5. JOHN BLISHEN & CO., 12 Penzance Place, London, W.11, displayed a range of Keystone 8-mm. cameras manufactured in the United States. KODAK LTD., exhibited their Zoom 8 reflex model, which will be released shortly. Prominently featured among the Continental and U.S. cameras shown by PHOTONIA, LTD., Hempstells Lane, Newcastle, Staffs., was the Auto-Carena 8-mm. model. DAVID WILLIAMS, LTD., 5 Glasshouse Yard, London, E.C.1, included the Admira 8F camera.

After cameras, projectors were the most popularly featured items. Three Kindermann projectors for 35-mm. and superslide transparencies were demonstrated by ACTINA, LTD., 10 Dane Street, London, W.C.2. Three new models also were displayed by NEVILLE BROWN & CO., LTD., 93 New Caven-dish Street, London, W.1. They were the Aldis XT 150 (with f/2.5 lens and



### Admira 8F movie camera.

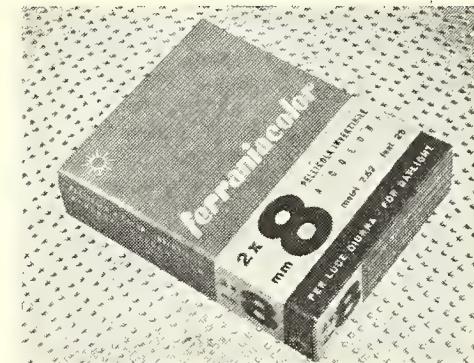
150 watt lamp); XT 330 (automatic with lens as before but 300 watt lamp); and XT 360 (as 330 with built-in internal timer, lamp rheostat, and socket for tape recorder). AMPLION, LTD., showed their new "808" cine projector.

ELITE OPTICS, LTD., Wellington Road, High Wycombe, Bucks, manufacturers of epidiascopes, included in addition two projectors for film strips and slides; one takes a 300 watt lamp and the other 750/1,000 watts.

A new 8-mm. projector was featured by GNOME PHOTOGRAPHIC PRODUCTS, LTD., Caerphilly Road, Cardiff. In addition to the Eumig range of projectors on view, JOHNSONS OF HENDON, LTD., showed the Zettomat II—a new 35-mm. transparency projector incorporating autochange, 500 watt lamp, remote control focus and slide changing, and providing for interchangeable lenses (an unusual feature). On the Kodak stand was the Kodak Sound 8 projector, to be introduced with the cine camera already mentioned.

Now that their "Junior" model has been discontinued, LUMINOS, LTD., 1 Belsize Crescent, London, N.W.3, have introduced the Noris 150A projector, which was featured alongside the more established Noris models. The well-known Paximat projectors were joined by a newcomer, the N12, at the PULLIN OPTICAL Co. stand.

Two new projectors were shown by SPECTO, LTD., Vale Road, Windsor. The "Continental," a 30 watt model, features a thirty-six-slide carrier of standard size and easy accessibility. The other addition to the Specto range was the Greyline projector.



#### Ferraniacolor in 8 mm. cine pack.

In the accessory field, flashguns were featured by Messrs. Amplion, John Bealey & Co., Neville Brown & Co. and J. J. Silber. Neville Brown & Co. Ltd., also displayed their stock of Nebro goods. Floodlights were exhibited by Messrs. Amplion, Photax and Specto. Malham Photographic Equipment, Ltd., showed a range of cine screens. Five Sawyer's viewers, designed to suit all pockets and tastes, were shown by VIEW-MASTER (ENGLAND), LTD., 16 Eastcastle Street, London, W.1. Exposure meters were featured by P. GOSSEN & Co., on the Photax stand, who displayed the Sixtino (introduced late last year) and the new Lunasix, claimed 128 times more sensitive than conventional models. SANGAMO WESTON, LTD., 22 New Oxford Street, London W.C.1, displayed the latest of their meters, the Weston Master IV.

Weston Master IV.  
In the range of Chemicals MAX &

BAKER, LTD., Dagenham, Essex, showed for the first time their new non-ionic wetting agent, Cascade. ILFORD, LTD., displayed Monophen, the combined developer and fixer.

New colour films were also on display. AGFA, LTD., featured a fast indoor colour cine film, C16. Colour negative rollfilm in sizes 120, 620 and 127 (speed 32 ASA) was exhibited by CORONET, LTD., 308 Summer Lane, Birmingham, 19. NEVILLE BROWN & CO., LTD., showed the latest Ferrania-color film, in 8 and 16-mm. cine form. ADOX C18 reversal roll-film in size 120 was another feature of the GNOME

PHOTOGRAPHIC PRODUCTS display. HAMINEX (U.K.), LTD., 42 Lower Marsh, London, S.E.1, gave prominence to Perutz films, with particular reference to Perutz Colour. This film is rated 50 ASA and is produced in 35-mm. (36 or 20 exposures), 120 and 127 forms. Double 8-mm. colour film (speed 20 ASA) is to be introduced shortly.

Colour processing services were represented by ANCOR COLOURPRINT LABORATORIES, LTD., Ormond House, Boswell Street, London, W.C.1 (producers of Ancor enlargements); COLOUR PROCESSING LABORATORIES (ST.

ALBANS), LTD., Porters Wood, St Albans, Herts, and RANK TEMPO LABORATORIES, LTD., Cumberland Avenue, London, N.W.10. Messrs. Rank Tempo gave an impressive display of colour printing, using an electronic machine capable of producing 85 prints at one loading.

The wholesale distribution trade was represented by BRADLEY & BLISS, LTD., King's Road, Reading.

Visitors to the Fair were invited to participate at various stages by photographing lady models. There was also a series of lectures on technical aspects of photography.

## PHOTOGRAPHIC NOTES

**Versatile Shooting.** — An attractive snapshot camera, the Brownie 44B, is available from Kodak, Ltd., Kingsway, London, W.C.2. It is a more versatile version of the Design Centre award-winning 44A model. The shutter provides exposures of 1/30 and 1/60 sec. and brief-time. It is fitted with flash contacts and there is a double-exposure prevention device. The 3-element anastigmat 50 mm. f/8 Anaston



lens has three stops, f/8, 11 and 16. It can be focused from infinity down to 3 ft. and the focusing scale is also marked in "views," "groups" and "close-ups." A leather case is also available. The camera takes twelve pictures on 127 film.

**Cine with "Zoom Lens."** — Introduced in May by the cine and photographic division of Rank Precision Industries, LTD., 37-41 Mortimer Street, London, W.1, is the new Bell & Howell Sportster V cine camera which, besides incorporating an automatic exposure control, is fitted with a zoom lens. The makers claim that it is the only 8 mm. home movie camera which zooms smoothly from long shots to close-ups

and moves instantly from normal to slow-motion speed without losing a split second of any action being filmed. A coupled viewfinder enables the operator to see exactly what the camera is recording on his film as he zooms on to or away from a subject. The shutter remains closed at the end of each shot and end of each spring run, so avoiding the possibility of blank frames on the film. One wind of the spring system allows for 15 ft. of film. The Sportster V is supplied complete with pistol grip and leather carrying case. The 9.27 mm. zoom lens has a f/1.8 aperture with focusing mounting from infinity to 6 ft. (fixed focus 20 ft.). Frames: single, normal 16 f.p.s. and slow motion 48 f.p.s. Price: £105 11s. 1d., including tax.

**Colour Film in Size 127.** — Following the introduction of Ilfacolor roll-film in the 120 and 620 sizes last season, Ilford, LTD., Ilford, Essex, are now producing this material in the 127 size. The new film is identical with other Ilfacolor films, and retains the wide exposure latitude of two stops on either side of the correct reading. The speed of Ilfacolor 127 is 32 ASA. Variations in colour balance are compensated for at the printing stage, enabling exposures to be made in daylight, or with clear flashbulbs, electronic flash or photoflood lamps, without the use of correction filters. Processing is carried out only at Ilford.

**Simple Protection for Prints.** — A "do-it-yourself" plastic sealing kit has been introduced by Amplion, LTD., 175 Cricklewood Lane, London, N.W.2, for providing life-time protection for photographs and other paper materials. One kit contains sufficient adhesive

plastic sheeting to cover six wallet-sized photographs. In return for each order placed for twenty-five kits dealers are supplied in addition with a free display rack and showcard.

**Electric-eye Cine Camera.** — Photopia LTD., Newcastle, Staffs, have acquired the sole distribution rights in the United Kingdom for the Swiss 8-mm. Auto Carena camera. The Auto Carena is fully automatic. It is fitted with a cadmium sulphide photoelectric cell. As a precaution, the viewfinder contains indicators that signal when there is too much or insufficient light for filming. Change-over from automatic to manual control can be made at any time. The electric eye may be set for film emulsion ratings between 10 and 400 ASA. The camera incorporates a Steinheil Culmina 13-mm. f/1.9 lens; telephoto and wide-angle lenses are also available. Operation proceeds at one of five speeds. Each wind of the spring motor gives a 7-ft. run of film. Filters, case and wrist strap are optional extras.



**A Box to Hold 200 Slides.** — An interleaved arrangement of compartments enables the Paterson 200 slide box to accommodate twice as many slides (2 x 2-in.) as conventional wooden boxes of little smaller size. A product of R. F. Hunter, LTD., 51 Gray's Inn Road, London, W.C.1, it is double-sided, the lids being marked 1-100 and 101-200 respectively. Each slide compartment has a plate behind it on which the title of the slide can be written. The box is furnished with a chromium plated handle.

**Preparing for Summer.** — For the Summer season "when thousands of photographers are taking millions of colour pictures," Johnsons of Hendon, LTD., Hendon Way, London, N.W.4 offer a range of four colour transparency viewers: the Jumbo 22 (battery or mains transformer operation) Jumbo 35, Jumbo 66 and Colorvue (all battery).

**SIMPLE PRECISION:** Precision photography without technical complications is made possible with the Bell & Howell Sportster V cine camera with zoom lens of Rank Precision Industries, LTD., 37 Mortimer Street, London, W.1, shown at right, and the Rollei-Magic automatic camera of R. F. Hunter, LTD., 51 Gray's Inn Road, London, W.C.1 (opposite). The Rollei-Magic's automatic setting self-adjusts aperture and shutter settings; all that is necessary before releasing the shutter is to focus the image in the focusing screen. The camera takes twelve or sixteen exposures and incorporates a 75-mm. Schneider Xenar f/3.5 lens and Prontomat S shutter.



# Mayor at opening of a pharmacy extension

## INNOVATIONS AT AN ESTABLISHED SUNDERLAND BUSINESS

THE attendance of civic dignitaries on the occasion of the opening of a chemists' shop must be an unusual event. The enlarged and modernised premises of G. P. Fairman & Son, Ltd., 24 Vine Place, Sunderland, which were officially opened in the presence of the mayor and mayoress of Sunderland on May 18, are, however, themselves something out of the ordinary. The opening ceremony was performed by Mrs. L. Jacobson (wife of the chairman of Montague Burton, Ltd.), whose son-in-law (Mr. Manfred Baum) is managing director of Messrs. Fairman. Mr. Baum largely specified and supervised the design of the new shop, working throughout in close collaboration with the shopfitters (Heggie & Pitchison, Ltd., Edinburgh) and the architects (S. J. Stevenson, Gillis & Partners, Newcastle-on-Tyne).

### Corner Position Exploited

The attractive modern frontage of the new premises fully exploits the shop's corner position. The fascia is of green mosaic tiles, forming an effective background to the bold "built-up" lettering. The word "FAIRMANS" is in red Perspex concealing fluorescent lighting. The words "THE CHEMISTS" and "PHARMACY" are similar but with contrasting white faces. Window-sills and blind lath are of satin stainless steel. The side pilasters and door jambs are made of white Arnialto marble, with returns in polished black granite. The word "CHEMISTS" is reiterated above the armour-plate glass doors, which are fitted with venetian glass handles. The threshold is a mosaic of white tiles with carborundum insets.

The windows are not intended to be dressed, but have rather been designed to afford an unimpaired view into the interior of the shop, particularly of the cosmetic and dispensing counters. There is a single suspended show case, lit at top and bottom, in the corner of the larger window.

On entering the shop a customer's first impression is of spaciousness, brightness and colour harmony—a balance of lime green, turquoise, grey, blue and white. Another immediately striking feature is the background of soft music audible in



Group taken after the opening of the redesigned premises of G. P. Fairman & Son, Ltd., Sunderland, on May 18. Left to right, Mr. and Mrs. M. Baum, the mayor of Sunderland (Alderman J. Tweddle), Mrs. L. Jacobson, the mayoress, and Mr. Lionel Jacobson.



The shopfront before modernisation.

all parts of the building including the dispensaries and administrative offices (from which it is controlled). The choice of records is strictly under the managing director's personal control! The sound system also serves to announce the completion of prescriptions to waiting customers and for staff announcements.

The cosmetic counter is prominently featured. Of an unusual shape—roughly a long S—it is executed in curved glass, Melamine and figured sycamore. Like all the other shop fittings, it was specially designed and incorporates no standard units. Counter displays are reduced to a minimum, and that results in an "uncluttered" look, but ample display space exists in the glass showcases behind the counter or built into the counters themselves. A large prescription counter is situated on the right of the entrance. Prescription forms are conveyed to the

dispensary (which is on the first floor) by means of an electric document lift, completed prescriptions being returned by an adjacent service lift. Ample and comfortable seating accommodation is provided for waiting customers at a central island unit, the sponge rubber seats being covered in durable and washable Florestine fabric. Attached to the unit is a large impressionistic mural design on a Formica ground based on laboratory apparatus. The motif is echoed in the top of a small table on which are set out a selection of magazines and journals, again for the convenience of customers who have to wait. Functional as well as decorative, the back of the mural is a showcase for electrical goods.

Other counters are devoted to men's goods, photographic supplies, baby requisites, "patent" medicines and surgical goods, the various departments being indicated in plastic lettering that stands out clearly against the vinyl coated fabric pelmets, all illuminated from behind. Two self-service units are devoted to baby foods and to soft drinks and medicated wines respectively.

The treatment of the shop ceiling has received ingenious architectural attention. The central section consists of freely suspended green and red painted panels, which effectively conceal an ugly beam arrangement that had to be retained for structural reasons. The surrounding area is paved with white



The new shop front at night. At right, the proprietary medicines counter and seating arrangements for waiting customers.

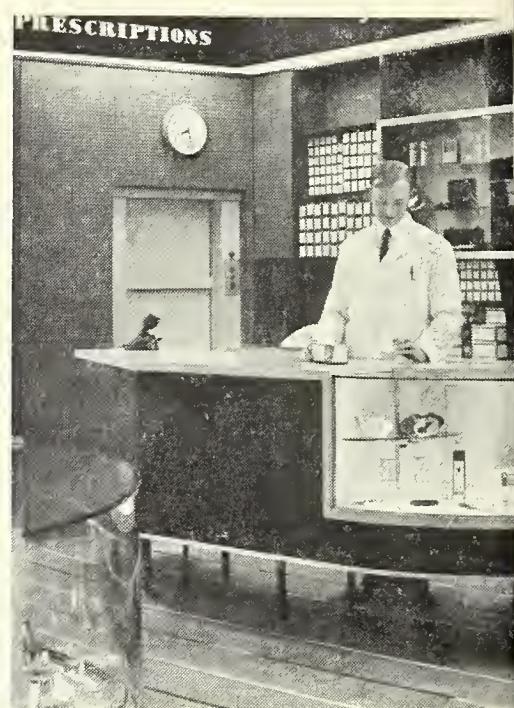


Interior of the dispensary. Ethical preparations are arranged in manufacturer order and each dispensing unit is equipped with a magnetic balance and at the side with a selection of tablets in common use. In the corner of the prescription counter is a document lift to the dispensary and a service lift for completed prescriptions.

Travatone tiles, inset in which, above the lines of the counters, are a series of recessed lamps. Additional lighting is provided throughout the centre of the shop and above the cosmetic counter by a chain of opal glass pendant lamps.

On the floor above are the main dispensary, a small fitting room, a staff canteen and the administrative offices. Again the most striking feature of the dispensary is the spaciousness and absence of "clutter." Three separate Formica-topped dispensing units provide six dispensing positions, the complement of qualified staff normally being four. All fittings are sprayed with Titanine a durable plastic material. Bottles and

corks are located in proximity to the prescription lift, so that they may be selected according to the requirements of each prescription before the dispenser takes up his position at his dispensing bench. Because of the size of the dispensary, considerable attention has been paid to layout and the deployment of stock so as to minimise movement. So far as possible, ethical preparations are grouped in order of the manufacturer, and each dispensing unit has a selection of the more commonly prescribed tablets. The drug units have sliding glass doors and roller shutters with auto-locks. An innovation on the Dangerous Drug cupboard is a red pilot light which indicates



that the door is open. There are a small refrigerator, an electric hot-plate and electrically heated ointment slab. Comodious bulk stock cupboards are located above the drug units and galenical cupboards with sliding glass doors immediately below them. The dispensary is heated by radiant heaters suspended from the ceiling. The floor is blue and grey polyvinyl tiles.

A smaller dispensary on the next floor, reserved for bulk dispensing, is equipped with an ointment mill, sterilisers, an electric still and a water deionising unit.

All the modifications reveal thoughtful intentions, attractively realised for the convenience of staff and customers.

## TRADE NOTES

**Support Nylons.**—The Scholl Mfg. Co., Ltd., 182 St. John Street, London, E.C.1, are introducing new support nylon stockings, Vitality, in three standard foot sizes (8½-9; 9½-10 and 10½-11).

**Appointed Distributors.**—John Bell, Hills & Lucas, Ltd., Oxford Works, Worsley Bridge Road, London, S.E.26, have been appointed manufacturers and distributors (on behalf of the proprietors) of the speciality Hemosol in 6-oz. syringe.

**Changes of Price.**—Philips Electrical, Ltd., Century House, Shaftesbury Avenue, London, W.C.2, announce price increases for some projector and photographic lamps not in great demand. Most of the more popular types remain unchanged in price and the 8V 50W projector lamp has been reduced.

**Appointed Sole Agents.**—Universal Laboratories, Ltd., Folkestone, Kent, have been appointed sole agents for the products of Leas Cliff Products, Ltd., on whose behalf they will be distributing what is described as "a completely different weight reduction food." The product, called Limmits, is being launched nationally in the near future.

**Now Tax Free.**—William R. Warner & Co., Ltd., Eastleigh, Hants, state that

under the Purchase Tax (No. 1) Order, 1961, their speciality Nardil has been exempted from purchase tax. Knoll, Ltd., Victoria Way, Burgess Hill, Sussex, announce that the following Knoll products are now exempt from purchase tax: Bromural "Knoll" tablets; Soventol "Knoll" tablets and jelly and Soventol C "Knoll" dragees.

**Increase in Number and Price.**—Warwick Brothers, Ltd., Warrex Laboratories, Tile Hill, Coventry, announce that from June 5, the number of Rinstead pastilles in each tin will be increased from 21 to 24 and the retail price will be 2s. 6d. In spite of this increase, however, the company point out that the price per pastille to the public is being slightly decreased as a result of the modifications.

**Disneyland Competition.**—In a colouring competition for children under twelve years of age sponsored by D. & W. Gibb, Ltd., Hesketh House, Portman Square, London, W.1, the first prize of a holiday in Disneyland (which included a return flight by British Overseas Airways Corporation direct to Los Angeles accompanied by the parents) was won by Anthony Whitworth (Area 4). Finalists from each of the six areas received a Specto projector together with three Walt Disney

films. The competition attracts about 70,000 entries.

**In Bulk Sizes.**—Rodine rat Warfarin and Rodin mouse Warfarin are now available in bulk sizes, the rat warfarin in 14 lb., 28 lb., 56 lb. and 1 cwt. sizes, and the mouse warfarin in 1 lb., 7 lb., 14 lb., 28 lb., 56 lb. and 1 cwt. quantities. Rodine products, the manufacturers of which are Thomas Harle, Ltd., Perth, members of the Rentokil Group, are carried by representatives of Rentokil Products, Ltd., Leatherhead, Surrey.

**Shaving-cream / Razor-blade "Alliance."**—A banded-pack of unusual interest brings together Palmolive shaving creams (lather and brushless) and Wilkinson Sword-edge "dispenser" containing two stainless ten-blade blades. Retail and trade prices are the same as for the Palmolive creams alone and the offer is being supported by heavy advertising in the national daily and Sunday Press. Manufacturers of the shaving cream are Colgate-Palmolive, Ltd., 76 Oxford Street, London W.1.

**INFORMATION WANTED**  
The Editor would appreciate information about the following:

Fenocort spray

## COMPANY NEWS

Previous year's figures in parentheses

HOUGH, HOSEASON & CO. LTD.—Messrs. Colin Harris, B.Sc., M.P.S., and E. R. Meacham, F.P.S., have been appointed joint managing directors.

MAY ROBERTS (IRELAND), LTD.—Trading profit for year ended January 31 was £40,625 (£41,604), less directors' fees, £1,000 (same) and tax £15,896 (£17,423). Dividend, 20 per cent. (same).

JOHNSTONS OF HENDON (HOLDINGS), LTD.—Sales in 1960 9 per cent. higher than in 1959 and yielded a record profit of £136,327 (£132,523). Ordinary dividend, 10 per cent., carry forward, £151,255.

ASSOCIATED CHEMICAL COMPANIES, LTD.—The board announces that its offer to acquire the whole of the issued share capital of the Farmers' Co., Ltd., has been accepted by holders of more than 97 per cent. of such shares, and that the offer now becomes unconditional.

UNICHEM, LTD.—The annual report for 1960 presented by the chairman (Mr. T. C. Cale) stated that net profit before paying rebate was an all-time peak at £110,034 and after members' rebate of £27,400 (£24,000) and other charges it was £82,634 (against £70,893). Tax, £42,477 (£38,427); transfers to reserve, £28,500 (£24,500); Ordinary dividend, 10 per cent. (same).

BRITISH ALKALOIDS, LTD.—The chairman (Mr. E. O. Toft) at the annual meeting on June 1 said that trading in the year ended March 31 proved a record largely on account of a substantial increase in the second half. Exports decreased in value. Repressive legislation had been introduced against imports in some states which had affected sales but headway had been made in some African territories. For accounts see *C. & D.*, May 6, p. 458.

ALBRIGHT & WILSON, LTD.—Mr. F. G. Pentecost has resigned from the board following his retirement from the board of A. Boake, Roberts & Co. (Holding), Ltd. Mr. B. White, who succeeded Mr. Pentecost as chairman of the latter company in April, has been appointed to the board of Albright & Wilson, Ltd. Professor D. M. Newitt, M.C., F.R.S., until recently Courtauld Professor of Chemical Engineering, Imperial College of Science and Technology, has been appointed a part-time director of Albright & Wilson, Ltd.

BORAX (HOLDINGS), LTD.—Group trading profit for the three months to March 31, amounted to £1,130,235 (against £1,076,278 for the corresponding period of 1960) making £1,872,382 for six months (£1,940,146). The figures include the due proportion of the profits of recently acquired subsidiaries after depreciation of £575,521 (£582,351) for the three-month period, and £1,106,104 (£1,133,108) for six months. The net profit for the three months is £733,029 (£759,940) and for the half-year £1,227,450 (£1,346,619).

GREEFF - CHEMICALS HOLDINGS, LTD.—Group profit for 1960 is £257,111 (£245,001) before tax of £109,671 (£105,842). Revenue reserves receive £24,000 (£30,639) and the sinking fund, £3,246 (same). The directors

have revalued the trade investments at £2,945,475, resulting in a surplus of £1,588,995 over the previous book value, which has been added to general capital reserve. A corresponding adjustment has been made to the book value of the holding company's interest in the operating company. Ordinary dividend for year totals 16½ per cent. (15 per cent.).

EDWARDS HIGH VACUUM, LTD.—At the annual meeting of the company on May 24, the chairman (Lord Wilmot of Selmeton) said that the various developments being undertaken would double the production area and relieve the congestion experienced last year. Finance for a new building at Shoreham, he said, would be provided by a leading insurance company, thereby keeping the company's funds available for working capital. Details of a proposed rights issue were to be dispatched to shareholders in July. The first four months of the current year to December 1960 had made a good start, with deliveries and orders received in excess of those for the same period of previous year.

LAPORTE INDUSTRIES, LTD.—A final dividend of 7½ per cent. is recommended for the year ended March 31. The dividend is payable on the total of £12,891,510 issued Ordinary capital, the interim dividend of 3 per cent. has already been paid on £11,822,760 prior to the recent issue of £1,068,750 allotted as part consideration for the acquisition of Howards & Sons, Ltd. and which will qualify for the above dividend. Group surplus for year is £4,529,943 (£4,334,660) from which £1,213,698 (£1,109,869) is deducted for depreciation. Sundry income of £17,280 is added (£76,848 deducted), and after tax of £1,469,771 (£1,339,849), and pre-acquisition profits of £26,630 (nil), the net balance is £1,837,124 (£1,808,096). Subsidiaries retain £444,644 (£587,995) leaving the parent's net income £1,392,480 (£1,220,101). The company announce that they have agreed to acquire all the issued share capital of Elektrochemische Werke Munchen AG, Hollriegelskreuth, Munich, Western Germany. The consideration for this acquisition will consist partly of shares of Laporte and partly of cash, the total amount being £1,506,629 at present market prices. The profit of E.W.M. for 1960 was £264,000.

## BUSINESS CHANGES

MR. H. T. CHRISTIAN, M.P.S., is to open a new pharmacy at 164 Bramcote Lane, Wollaton, Nottingham, on July 1.

THE OATINE CO. (Opera Omnia, Ltd., proprietors), 44 Kennington Lane, S.E.11, has been acquired by Vine's Biocrin, Ltd., 222 Harrow Road, London, W.2.

BRADDOCK & BAGSHAW, LTD., having sold their property at 37 Yorkshire Street, Oldham, Lancs, for redevelopment purposes, are transferring their head office to 340 Manchester Street on June 6.

## Appointments

HORLICKS, LTD., Slough, Bucks, have appointed the following medical

representatives: Mr. G. C. Groom for South-east London; Mr. J. P. Campbell, Northern Ireland; Mr. N. J. Miller, Glasgow; and Mr. S. C. Cowmeadow, Leicestershire and Staffordshire.

## DEATHS

BURR.—On May 26, Mr. Percy W. Burr, Lyndhurst, Harlaxton Drive, Nottingham. Mr. Burr, the father of three pharmacists including Miss M. A. Burr (a member of Council of the Pharmaceutical Society), was a well-known personality on the staff of The British Drug Houses, Ltd., for many years.

FLETCHER.—On April 2, Mr. Thomas William Fletcher, M.P.S., 10 Elmswood Road, Liverpool, 17. Mr. Fletcher qualified in 1905.

HARRIS.—On May 25, Mr. Walter Sim Harris, F.C.S., governing director of Hough, Hoseason & Co., Ltd., Atlas Laboratories, Chapel Street, Levenshulme, Manchester, 19. Mr. Sim Harris was formerly joint managing director of E. Griffiths Hughes, Ltd. He was also a member of the executive committee of the Proprietary Association of Great Britain and served for a number of years on the Group A2 committee and the drugs committee of Group A1 of the Association of the British Pharmaceutical Industry.

LEE.—Recently, Mr. Cecil Smith Bovelle Lee, M.P.S., Rose Lea, Upper-kirkgate, Huntly, Aberdeens. Mr. Lee, who qualified in 1907, was a native of Strichen, Aberdeens, and the son of a pharmacist. After managing a pharmacy in Powis Terrace, Aberdeen, he was in business at Kittybrewster, Aberdeen.

STINSON.—On May 20, Mr. William Robert Stinson, M.P.S.N.I., Cairnbrae, Newtownbreda. A native of Clonaneese, Dungannon, Mr. Stinson served his apprenticeship with John Beattie, Clones, and afterwards went to Dublin where he qualified in 1917. He registered in Northern Ireland in 1926. In 1929 he commenced business at 111 North Street, Belfast, and had since carried on there, latterly, in partnership with his son, Mr. J. G. Stinson, as a chemist and optician.

WARNER.—On May 29, Mr. Stafford Allen Warner, M.P.S., Whitelea, Broadway, Didcot, Berks, aged eighty-one. Mr. Warner was a former president of the Institute of Optical Science.

WATSON.—On May 21, Harold Watson, M.P.S., 4 Meadow Close, Lillington, Leamington Spa, Warwicks. Mr. Watson qualified in 1928.

## PERSONALITIES

COUNCILLOR T. J. VERNON PARRY, M.P.S., Stockport, has been elected an alderman of the county borough. He is leader of the town's Liberal Party and president, Stockport branch, United Kingdom Travellers' Association.

MR. G. G. HAMMOND, B.Sc., F.R.I.C., M.P.S., managing director of Bradley & Bliss, Ltd., Reading, has been elected an alderman of Reading borough council. Mr. Hammond has been a member of the council for eleven years, and is chairman of its estates committee and vice-chairman of the health committee.

MR. P. ETIM ARCHIBONG, who joined May & Baker, Ltd., in West Africa in 1946, has been appointed general manager of May & Baker (West Africa), Ltd. Mr. Archibong, who is widely known in pharmaceutical and business circles of Nigeria, has been president of the Nigerian Pharmaceutical Society since 1952 and is a member of its Pharmacy Board. He has been a director of May & Baker (West Africa), Ltd., since 1955.



MR. A. G. M. MADGE, M.P.S., who is secretary of the Plymouth Branch of the Pharmaceutical Society and chairman of the Plymouth Pharmaceutical Committee, has also been elected chairman of the Cornish Pharmaceutical Committee.

M. JEAN LESUR who presented one of the papers for discussion at the Franco-British Pharmaceutical Conference (p. 579) is a retail pharmacist at Lambersart, nr. Lille (*Département du Nord*). He is president of the departmental syndicate of the North, a member of the Pharmaceutical Society of Lille, a member of the council of the Federation of Pharmaceutical Syndicates of France, vice-president of the *Caisse d'Assurance Vieillesse des Pharmaciens*, and a *Chevalier de la Santé Publique*.

MR. CECIL WALLER (research manager of Ilford, Ltd.) has had conferred on him by the University of Bristol an honorary degree of Doctor of Science. Dr. Waller has devoted thirty years' work to the science and



technology of photographic emulsions, and has become known to nuclear physicists all over the world through his work to develop and produce Ilford nuclear emulsions, a tool by which many of the most important discoveries in nuclear physics have been made since the war. Dr. Waller is a Fellow of University College, London, and has been awarded the Duddell medal of the Physical Society, the Longstreth medal of the Franklin Institute of Pennsylvania, and the Progress medal of the Royal Photographic Society, of which he is an Honorary Fellow.

MR. E. ASHTON HEBRON, M.P.S., 9 New Chester Road, New Ferry, Cheshire, has just returned from Switzerland after attending the 115th annual Convention of the Swiss Pharmaceutical Society in Berne, at the invitation of Dr. J. Brunner Schmidt, where he saw Sir Hugh Linstead made a Corresponding Member of the Swiss Society.

MR. REGINALD G. McDANIEL, M.P.S., who is managing director of R. A. McDaniel, Ltd., St. Mary's Street, Bungay, Suffolk, has been elec-

ted president of Bungay, Suffolk Rotary Club for its year starting July 1. At present he is vice-president and also chairman of the club service committee.

MR. H. NOBLE (Secretary, National Pharmaceutical Union) because of his disposition has been granted leave of absence by the Union's Executive Committee. Mr. J. Wright has been appointed acting secretary of the N.P.U. group of organisations and acting secretary of the Central N.H.S. (Chemical Contractors) Committee.

## Correspondence

Letters when received must bear the name and address of the sender, not necessarily for publication. The Editor does not hold himself responsible for the views expressed.

### Thanks to Voters and Others

SIR.—May I through your columns express thanks to members of the Pharmaceutical Society whose votes made me a member of Council on May 17? May I also thank those who sent messages of good wishes upon hearing of my success—especially many friends in Ireland, both North and South?

PATRICK G. FLOOD

SIR.—May I express my sincere thanks to all who so kindly supported me in the Council elections? The result frankly surprised me, and I believe it to be a symptomatic expression from which lessons are to be learned.

H. JARVIS GRAVES

SIR.—May I offer my sincere thanks and appreciation to all the members who supported me in the recent Council election? I am greatly encouraged by this renewed confidence in my efforts on behalf of the membership and our profession.

TOM REID,  
Haslemere, Surrey.

### Strong Action Called For

SIR.—I think your correspondent, Mr. Alan Starr (C. & D., May 27, p. 546) is mistaken when he states that the Ministry of Health has fallen down on its job once more over the supply of 4s. and 6s. EC57's. I am quite sure their attitude is "The chemist will wear this" as he has worn everything else that has been put upon him. This will continue to be their attitude in small matters such as this, and large ones such as the proposed cut in "on cost." Strong action on our part is called for, possibly a strike. To those who throw up their hands at the suggestion, muttering "ethics" and reaching for the smelling salts, I would point out that Mr. Powell may not even be able to spell the word "ethical."

E. R. MINIFIE,  
Weston-super-Mare

### Decorators and Ceilings

SIR.—The Minister of Health in drawing a comparison between medical practitioners and house decorators, apart from overstepping the bounds of courtesy, has shown himself to be absurd. If the comparison represents the Minister's thinking, it causes one to speculate with whom the Minister compares the pharmacist. Could it be milkmen? It is time to observe that the Minister has thoroughly muddled the ceilings of remuneration of many

a professional man. However, we all know what happened to one house decorator who in recent decade entered politics. While the public can afford to take a chance with a house decorator who makes a mess of someone else's ceiling, they cannot afford that luxury with a Minister.

ICONOCLAST

### One Difference from Jenkin's Day

SIR.—One point that was not mentioned by the Pharmaceutical Society's registrar at the Branch Representatives meeting on May 17 (C. & D., May 27, p. 538) in dealing with the Jenkin case, was the difference in the position of the Pharmaceutical Society in 1920 and today. In 1920 the Society was composed of voluntary members, who each paid 10s. 6d. a year for the privilege of putting M.P.S. after their names. They numbered between 25 per cent. and 30 per cent. of all the chemists on the register. Since 1934 all pharmacists on the register are compelled to belong to the Society and to pay the decreed subscription, at present £5 5s. a year, and to submit to any discipline the Council chooses to enforce under the "code of ethical conduct." Surely it is time the Council forgot the Jenkin case and got the Charter amended so that it can represent all the pharmacists from whom they take a subscription.

C. A. E. MOODY,  
London, S.E.16.

### Scottish Executive Election

SIR.—I appeal to Scottish pharmacists to support the candidature of Mr. J. Macpherson, Ardesier, for the Scottish Executive. Largely due to his enthusiasm and energy, this numerically small and scattered group of pharmacists has been welded into a most successful branch. Those qualities would, I feel, be an asset to the Scottish Executive.

JAMES CONN, Chairman,  
North Scottish Branch.

### Appreciated

I MUST say though that I think the subscription is very modest for what you offer.—A.J.P.

### N.H.S. STATISTICS

In ENGLAND during January–December 1960, 203,704,840 prescriptions (134,529,709 forms) were dispensed at a total cost of £73,490,769. Average cost per prescription was 86.58d.

## BRITISH PHARMACOPŒIA, 1963

## Recommended deletions and additions

THE sixth report of the British Pharmacopœia Commission to the Pharmacopœia Committee of the General Medical Council lists the following monographs to be deleted from or added to the British Pharmacopœia, 1963. Inclusion of the new monographs is subject to the compilation of satisfactory specifications within the time available.

The Commission has discussed the adoption of an abbreviation of "microgram" for use in medical and pharmaceutical practice. In some sciences  $\mu\text{g}$  or  $\gamma$  (gamma) are used, but neither abbreviation is suitable for the expression of small amounts of

drugs in written prescriptions on account of the danger of confusion with other abbreviations, such as "mg" and "g". The Commission recommends the adoption of "mcg." because that abbreviation is less likely to be mistaken for other abbreviations and it is already used in some countries; it has been adopted by the Pharmacopœia of the United States. It is proposed to use "mcg." in the next edition of the British Pharmacopœia, and the Commission would welcome its general adoption in medicine and pharmacy as the abbreviation of microgram in reference to drugs.

The Pharmacopœia Committee refer

to the proposal to abolish the use of the apothecaries system of weights and measures in the B.P., B.P.C., and B.N.F. and state that if the Weights and Measures Bill is amended on the lines now envisaged, and is passed during the present session of Parliament it should be possible for the Commission to eliminate the apothecaries system from the British Pharmacopœia, 1963. Owing, however, to pressure on the Parliamentary time-table, there now appears to be some doubt whether the Bill will complete its passage during the present session. Sales of the B.P. 1958 and the Addendum up to April 30 were 33,787 and 8,654 respectively.

## Deletions

Acetic acid, glacial  
Amethocaine injection  
Ammonia solution, dilute  
Ammonia solution, strong  
Amphetamine  
Azovan blue  
Benzathine penicillin tablets  
Benzoin  
Benzoin tincture, compound  
Bismuth oxychloride  
Bismuth oxychloride injection  
Bismuth sodium tartrate  
Bismuth sodium tartrate injection  
Cade oil  
Camphor water  
Carbarsone  
Carbarsone tablets  
Chiniofon sodium  
Chiniofon sodium tablets  
Chlorinated soda solution, surgical  
Chloroxylenol  
Chloroxylenol solution  
Chlortetracycline injection  
Cinnamon oil  
Cinnamon water, concentrated  
Copper sulphate  
Dextran sulphate  
Dextran sulphate injection  
Dick control  
Dick test toxin  
Dihydrostreptomycin sulphate  
Dihydrostreptomycin sulphate injection  
Dill oil  
Dill water, concentrated  
Ephedrine  
Ethanolamine  
Ethanolamine oleate injection  
Ethyl biscoumacetate  
Ethyl biscoumacetate tablets  
Eucalyptol  
Hexamethonium tartrate tablets  
Hydrocortisone injection  
Iodine solution, strong  
Iodoxyl  
Iodoxyl injection  
Leptazol  
Leptazol injection  
Magnesium oxide, heavy  
Male fern extract capsules  
Malt extract  
Malt extract with cod-liver oil  
Menaphthone  
Menaphthone sodium bisulphite  
Menaphthone sodium bisulphite injection  
Mephenesin  
Mephenesin injection  
Mercuric oxide, yellow  
Mercuric oxide eye ointment  
Mercury  
Nicotinamide injection  
Nicotinamide tablets  
Ouabain  
Ouabain injection  
Oxytetracycline and procaine injection  
Paraffin, liquid, emulsion

Paraffin, liquid, light  
Pentolinium tablets  
Peppermint spirit  
Phenidol  
Phenol glycerin  
Potassium acid tartrate  
Potassium bicarbonate  
Riboflavin tablets  
Rosemary oil  
Scarlet fever prophylactic  
Silver protein  
Soap liniment  
Sodium carbonate  
Starch glycerin  
Storax, prepared  
Stramonium dry extract  
Strychnine hydrochloride  
Strychnine hydrochloride solution  
Sulphaguanidine  
Sulphaguanidine tablets  
Sulphamerazine  
Sulphamerazine tablets  
Sulphur, sublimed  
Tannic acid glycerin  
Terpineol  
Tetracycline and procaine injection  
Urea  
Vanillin  
Zinc stearate

Demethylchlortetracycline capsules  
Deoxycortone trimethylacetate  
Deoxycortone trimethylacetate injection  
Dequalinium acetate  
Dequalinium chloride  
Dexamethasone  
Dexamethasone tablets  
Dexamethasone acetate  
Dexamethasone acetate tablets  
Dextromethorphan hydrobromide  
Dextromethorphan tablets  
Diamorphine hydrochloride  
Diamorphine injection  
Dibromopropamide isethionate  
Dichlorphenamide  
Dichlorphenamide tablets  
Diethazine hydrochloride  
Diethazine tablets  
Digitoxin  
Digitoxin tablets  
Diloxanide furoate  
Diloxanide tablets  
Dimenhydrinate  
Dimenhydrinate injection  
Dimenhydrinate tablets  
Dimethisterone  
Dimethisterone tablets  
Diphenhydramine injection  
Dipipanone hydrochloride  
Dipipanone injection  
Ditophal  
Domiphen bromide  
Edrophonium chloride  
Edrophonium injection  
Erythromycin estolate  
Erythromycin estolate capsules  
Erythromycin stearate  
Erythromycin stearate tablets  
Ethotoxin  
Ethotoxin tablets  
Eugenol  
Fludrocortisone acetate  
Fludrocortisone tablets  
Fluoxymesterone  
Fluoxymesterone tablets  
Glutethimide  
Glutethimide tablets  
Griseofulvin  
Griseofulvin tablets  
Guanethidine sulphate  
Guanethidine tablets  
Hexachlorophane  
Hydralazine hydrochloride  
Hydralazine tablets  
Hydrochlorothiazide  
Hydrochlorothiazide tablets  
Hydroflumethiazide  
Hydroflumethiazide tablets  
Imipramine hydrochloride  
Imipramine tablets  
Influenza vaccine  
Isophane insulin injection  
Iodipamide methylglucamine injection  
Iophendylate injection  
Iron dextran injection  
Isopropyl alcohol  
Levallorphan tartrate

Levallorphan injection  
Levorphanol tartrate  
Levorphanol injection  
Levorphanol tablets  
Magnesium stearate  
Maize oil  
Mecamylamine hydrochloride  
Mecamylamine tablets  
Meclozine hydrochloride  
Meclozine tablets  
Melarsoprol  
Melarsoprol injection  
Mephentermine sulphate  
Mephentermine injection  
Meprobamate  
Meprobamate tablets  
Mepyramine injection  
Methandienone  
Methandienone tablets  
Methicillin sodium  
Methicillin injection  
Methotrexate  
Methotrexate tablets  
Methyl hydroxybenzoate  
Methylcellulose  
Methylpentynol  
Methylpentynol capsules  
Methylprednisolone  
Methylprednisolone tablets  
Methyprylon  
Methyprylon tablets  
Nandrolone phenylpropionate  
Nandrolone injection  
Nitrofurantoin  
Nitrofurantoin tablets  
Norethandrolone  
Norethandrolone tablets  
Norethisterone  
Norethisterone tablets  
Noscapine  
Nystatin  
Paracetamol  
Paracetamol tablets  
Pemphidine tartrate  
Pemphidine tablets  
Pentaerythritol tetrinitrate  
Pentaerythritol tetrinitrate tablets  
Perphenazine  
Perphenazine tablets  
Phanquone  
Phanquone tablets  
Phenelzine  
Phenelzine tablets  
Phenoxybenzamine hydrochloride  
Phenoxybenzamine capsules  
Phentolamine hydrochloride  
Phentolamine tablets  
Phentolamine methanesulphonate  
Phentolamine injection  
Phenylbutazone  
Phenylbutazone tablets  
Pholcodine  
Phytomenadione tablets  
Piperocaine hydrochloride  
Potassium chloride injection  
Prednisolone hemisuccinate  
Prednisolone hemisuccinate injection  
Prednisolone sodium phosphate

## Additions

Acetizoic acid  
Alcohol, dehydrated  
Aminopterin sodium  
Aminopterin tablets  
Amphotericin B  
Amphotericin injection  
Bendrofluazide  
Bendrofluazide tablets  
Benzalkonium chloride solution  
Benztropine methanesulphonate  
Benztropine tablets  
Botulinum antitoxin  
Bretlyium tosylate  
Bretlyium tablets  
Calcium aminosalicylate  
Calcium aminosalicylate tablets  
Caramiphen hydrochloride  
Caramiphen tablets  
Cetylpyridinium chloride  
Chlorambucil  
Chlorambucil tablets  
Chlorphenesin  
Chlorpheniramine maleate  
Chlorpheniramine injection  
Chlorpheniramine tablets  
Chlorpropamide  
Chlorpropamide tablets  
Citric acid, anhydrous  
Crotamiton  
Cyclizine hydrochloride  
Cyclizine tablets  
Cyclomethycaine sulphate  
Cycloserine  
Cycloserine capsules  
Cycloserine tablets  
Demethylchlortetracycline hydrochloride

Prednisolone sodium phosphate  
Injection  
Prednisolone trimethylacetate  
Prednisolone trimethylacetate  
injection  
Prochlorperazine maleate  
Prochlorperazine injection  
Prochlorperazine tablets  
Promazine hydrochloride  
Promazine injection  
Promazine tablets  
Promethazine hydrochloride  
injection  
Promethazine theoclolate  
Promethazine theoclolate tablets  
Propyl gallate  
Propyl hydroxybenzoate

Protamine sulphate injection  
Pyridoxine hydrochloride  
Rabies antiserum  
Rabies vaccine  
Radioferric chloride ( $^{59}\text{Fe}$ )  
Radiogold ( $^{198}\text{Au}$ )  
Senna preparations, standardised  
Sodium acetizolate injection  
Sodium anoxynaphthonate  
Sodium calciumedetate  
Sodium calciumedetate injection  
Sodium calciumedetate tablets  
Sodium diatrizoate  
Sodium diatrizoate injection  
Sodium fluoride  
Sodium lactate injection  
Sodium radiochromate ( $^{51}\text{Cr}$ )

Sodium radio-iodine ( $^{132}\text{I}$ )  
Staphylococcus antitoxin  
Sulphafurazole  
Sulphafurazole tablets  
Sulphamethizole  
Sulphamethizole tablets  
Sulphamethoxypyridazine  
Sulphamethoxypyridazine tablets  
Sulphasomidine  
Sulphasomidine tablets  
Sulphobromophthalein sodium  
Sutures, surgical, non-absorbable  
Talc, purified  
Testosterone phenylpropionate  
and injection  
Thalidomide  
Thalidomide tablets

Thiambutose  
Thiambutose tablets  
Thioridazine hydrochloride  
Thioradizane tablets  
Thiotepa,  
Thiotepa injection  
Trifluoperazine hydrochloride  
Trifluoperazine tablets  
Trimetaphan camphorsulphonate  
Trimetaphan injection  
Tripelennamine tablets  
Viomycin sulphate  
Viomycin injection  
Vitamin A acetate  
Vitamin A palmitate  
Warfarin sodium  
Warfarin tablets

## N.P.U. writes to the Ministry PRESENT POSITION OF CHEMISTS "INDEFENSIBLE"

THE following letter has been sent to the Ministry of Health by Mr. J. Wright as acting secretary of the N.P.U. and Central N.H.S. (Chemist Contractors) Committee to Mr. R. F. Tyas (Ministry of Health):—

SIR,—The Central N.H.S. committee and the N.P.U. Executive Committee have reconsidered the whole question of items with a "retail" price of less than 2s. ordered on N.H.S. prescriptions, in the light of developments since we circulated guidance to N.P.U. members in February.

### Not permitted

The Committees have been advised that under the National Health Service Act and Regulations, chemist contractors are not permitted to decide when a person presents an order or form EC10 etc. whether to supply within the Health Service or "over the counter." The position under the Regulations, we are advised, is quite clear. The chemist is required to supply "to any person who presents an order for drugs or appliances on a prescription form provided for the purpose by a Council and signed by a practitioner on the medical list of a Council . . . such drugs or appliances as may be so ordered," subject only to the payment of the appropriate prescription charge. In stating in the House of Commons that it was assumed that the chemist would normally supply outside the N.H.S. at lower price where the retail price of an item in a private transaction would be below 2s., the Minister has, in the opinion of the Central N.H.S. and N.P.U. Executive Committees, disregarded the requirements of the Act and Regulations.

Leaving aside the legal aspects of the problem your pharmacists will know of the disquiet voiced at the recent meeting of Branch Representatives of the Pharmaceutical Society and of the view that is held that professional considerations preclude a pharmacist from discussing prescriptions with patients.

### Imputed Dishonesty

The whole question has been brought to a head by what was said in certain sections of the Sunday Press last weekend. As you may know, one widely read newspaper has imputed dishonesty where the chemist (in accordance with the requirements of the Regulations) merely supplies and asks for the 2s. prescription charge. Another newspaper, again

widely read, has advised its readers to "go through the items on the prescription with the chemist and ask how much they would be if . . . bought . . . at retail prices."

The Central N.H.S. Committee and the N.P.U. Executive Committee are not prepared to leave pharmacists in retail practice in the present indefensible position and accordingly I have been instructed to ask:—

(a) that the Minister should now make it clear in the House of Commons and to the Public that the 2s. charge is a payment towards the cost of the N.H.S. and that it bears no relation to the value of each prescription and that pharmacists cannot be expected to supply medicines outside the N.H.S. where the order is written on an N.H.S. prescription.

(b) that the paragraphs Nos. 10 and 11 in the draft ECN that you sent to us on May 18 should be replaced by the following:—

"items with N.H.S. price of less than 2s. or with retail price of less than 2s. when supplied outside the National Health Service."

"The N.H.S. Regulations require a chemist to supply, to any person who presents an order for drugs or appliances on a prescription form provided for the purpose by a Council and signed by a practitioner on the medical list of a Council . . . such drugs or appliances as may be so ordered," subject only to payment of the appropriate prescription charge.

(Signed) J. WRIGHT,  
Acting Secretary.

## NEW COMPANIES

P.C. = Private Company; R.O. = Registered Office

FRANK J. BREAN (CHEMIST), LTD. (P.C.)—Capital £1,000. To carry on the business of chemists, etc. Directors: Frank J. Brean, M.P.S., and Traute R. M. Brean, 105 Bushey Hill Road, London, S.E.5.

F. W. WEST (CHEMICALS), LTD. (P.C.)—Capital £500. To carry on the business of chemists, druggists, etc. Subscribers: Dorothy M. Graeme and Paul G. Graeme, 61 Fairview Avenue, Gillingham, Kent.

D. A. TUBB, LTD. (P.C.)—Capital £1,000. To carry on the business of chemists, druggists, etc. Directors: Donald A. Tubb, M.P.S., and Joan M. Tubb, M.P.S. R.O.: The Pharmacy, Newton Hill, Newton Ferrers, South Devon.

E. GRIMSHAW (CHEMISTS), LTD. (P.C.)—Capital £100. To carry on the business of chemists and druggists, etc. Directors: Edmund Grimshaw, M.P.S., and Cyril N. Stephens. R.O.: 29 Brighton Road, Worthing.

G. MORGAN EVANS, LTD. (P.C.)—Capital £10,000. To carry on the business of chemists, druggists, etc. Directors: Granville M. Evans, M.P.S., and Mary E. Evans. R.O.: 33 Bury New Road, Prestwich, Lancs.

VYNAKRIN, LTD. (P.C.)—Capital £1,000. To carry on the business of manufacturers of and dealers in cosmetics, etc. Directors: Bernard H. Vine and Muriel M. Lent. R.O.: 40 Oxford Street, London, W.1.

J. F. HART, LTD. (P.C.)—Capital £6,000. To carry on the business of chemists, druggists, etc. Directors: Bryan W. Watson, M.P.S., and Marion M. Watson, Man of Ross House, Ross on Wye.

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turers of and dealers in compressed tablets, essential oils, perfumery, etc. Directors: Robert W. Phillips, Wharf Lane, Bourne End, Bucks, Arthur K. Redway and Margaret J. Redway.

S. H. BECKETT (GRIMSBY), LTD. (P.C.)—Capital £1,000. To carry on the business of manufacturing and dispensing chemists, etc. Directors: Stanley H. Beckett, M.P.S., and Margaret Beckett. R.O.: 10 Town Hall Street, Grimsby.

VAUGHAN CHEMISTS (HEMEL), LTD. (P.C.)—Capital £100. To acquire the business of retail chemists carried on at 31 Stoneycroft, Hemel Hempstead, etc. Directors: Leslie A. Vaughan, M.P.S., and Betty M. Vaughan.

R. W. JENNINGS & CO., LTD. (P.C.)—Capital £10,000. To deal in apparatus and plant for laboratories of all kinds, and chemical and pharmaceutical products, etc. Directors: Reginald W. Jennings and Henrietta L. Jennings. R.O.: 12 Stoney Street, Nottingham.

SMITH & ANDREW (CHEMISTS, WARE), LTD. (P.C.)—Capital £780. To carry on the business of chemists, etc. Directors: Ernest G. Smith, M.P.S., and Kenneth W. Andrew, M.P.S. R.O.: 406 Bank Chambers, 329 High Holborn, London, W.C.1.

FEATHERSTONE DRUG COMPANY, LTD. (P.C.)—Capital £1,000. To carry on the business of merchants and agents for the sale of drugs, etc. Subscribers: Mrs. Ella Lawson and Sylvia Freeman. Sylvia Freeman is first director. R.O.: 10 Butts Court, Leeds, 1.

F. M. BREWER, LTD. (P.C.)—Capital £500. To carry on the business of chemists, etc. Directors: Frederick M. Brewer, M.P.S., and Jean F. Brewer. R.O.: The Parade, Liskeard.

LINTSCLOSE CHEMISTS, LTD. (P.C.)—Capital £100. To carry on the business of chemists, druggists, etc. Subscribers: Jean Herbert and Thomas A. Herbert, 156 Strand, London, W.C.2. The first directors are to be appointed by the subscribers.



# The CHEMIST AND DRUGGIST

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## A Proper Demand to the Minister

THE unequivocal statements and requests by the Central National Health Service Committee and National Pharmaceutical Union Executive Committee concerning the 2s. prescription charge (p. 572) will receive the approval of all chemist contractors. The forthright demands for a *démarche* by the Minister of Health is not a precipitate action. It is supported by a considered legal opinion of the present requirements of the Act and its Regulations, and in our opinion it also reflects accurately the feelings of chemist contractors, and, indeed, of many other pharmacists. The situation is so basically one of professional ethics that we would urge the Council of the Pharmaceutical Society publicly to support the action of the contractors' spokesmen. The recent meeting of Branch Representatives of the Pharmaceutical Society surely provided the Council with the necessary authority. Not to take such action in present circumstances would be inexcusable.

## Activities in Patents

THE Comptroller-General's annual report on the work of the Patent Office during 1960 reveals that the numbers of patent applications and of complete specifications filed were the highest ever received by the office. Altogether there were over 44,914 applications and 26,775 patents were sealed. Despite the rise in the number of complete specifications to be examined (there were 1,759 more than in 1959) the arrears of unexamined specifications (36,695) had fallen by the end of the year—the first reduction in eight years.

The Comptroller refers to public comment about the length of time it takes to obtain a patent. He points out that, although the initial delay in the Patent Office is still too long, the office is not responsible for the 3-3½ years after the filing of the complete specification which is often quoted as the time needed to obtain a patent. If the applicant deals promptly with questions raised by the office an application can be accepted and published within eighteen months. 50 per cent. of the applications are in fact accepted within two years. Considerably more than half of the complete applications, incidentally, come from abroad.

Patents for therapeutic drugs continued to increase. The Comptroller refers especially to the attention given to organo aluminium compounds. The chief activity in synthetic drugs was among those which relieve pain, act as sedatives or tranquillisers, lower blood pressure, or reduce the amount of cholesterol in the blood.

The number of applications for trade marks showed another advance in 1960, but at a slightly lower rate than

in 1959. In all, 10,239 marks were advertised and 9,894 registered. The figures in 1959 were 8,879 and 6,987 respectively. Marks advertised in class 5 (pharmaceutical, veterinary and sanitary substances, infants' and invalids' foods, etc.) totalled 1,068, of which 984 were registered, against 951 and 711 respectively in 1959.

A busy Patent Office may be said to reflect a thriving community and since the pharmaceutical industry has contributed largely to the activity of the Patent Office during 1960, one might have said that it augured well for the future of the industry. We believe that that may still hold good, though the recent proposal of the Minister of Health to use section 46 as a weapon in enforcing lower prices gives rise to some apprehension. However, it is in general satisfactory to know that the arrears of work in the Patent Office showed some reduction during 1960 for, as we have stated before (C. & D., September 26, 1959) "anything that can be done to ensure that a chemical or pharmaceutical patentee benefits more promptly, and to the maximum extent compatible with the long-term advantage of the community, must be a factor in stimulating further research, and is therefore to be pursued." But possibly the point of greatest current significance in the report is its reference to international activity in industrial property matters and the preliminary consideration given, under the auspices of the Council of Europe, to the possibility of a single patent application giving, if accepted, monopoly rights in a number of countries.

## Overseas Trade in April

UNITED Kingdom exports of drugs, medicines and medicinal preparations during April were valued at £4,106,024, bringing the total for the first four months of the year to £16.2 millions or 5 per cent. more than in the corresponding months of 1960. Penicillin and sulphonamide exports showed a notable rise in April on previous months, while other items for which statistics are available (see table) were generally at recent levels.

Australia was again the best customer for medicinal preparations as a whole, the value of her shipments during

EXPORTS						VALUE
						£
Drugs, medicines, medicinal preparations (total) ...	...	...	...	...	...	4,106,024
Vitamins ...	...	...	...	...	...	259,833
Penicillin salts ...	...	...	...	...	...	89,021
Penicillin injections ...	...	...	...	...	...	59,416
Penicillin tablets, ointments ...	...	...	...	...	...	130,063
Antibiotics other than penicillin ...	...	...	...	...	...	551,178
Alkaloids, excluding quinine ...	...	...	...	...	...	131,861
Aspirin ...	...	...	...	...	...	116,548
Antihistamines ...	...	...	...	...	...	68,911
Antipaludics ...	...	...	...	...	...	54,478
Barbiturates ...	...	...	...	...	...	74,730
Anæsthetics (excluding ether, chloroform and ethyl chloride) ...	...	...	...	...	...	50,113
Ointments and liniments ...	...	...	...	...	...	126,811
Insulin ...	...	...	...	...	...	28,856
Sulphonamides, prepared ...	...	...	...	...	...	116,555
Proprietary medicines ...	...	...	...	...	...	1,248,282
Unclassified medicines ...	...	...	...	...	...	810,401
Glycerin ...	...	...	...	...	...	23,537
Acetone ...	...	...	...	...	...	21,280
Citric acid ...	...	...	...	...	...	53,268
Essential oils, natural, excluding turpentine ...	...	...	...	...	...	75,488
Sulphonamides, unprepared ...	...	...	...	...	...	64,009
Perfumery and toilet preparations						
Lipstick, face powder, etc. ...	...	...	...	...	...	291,661
Dentifrices ...	...	...	...	...	...	161,526
Toilet soaps ...	...	...	...	...	...	297,646
Synthetic detergents ...	...	...	...	...	...	647,944

IMPORTS	£
Vitamins ...	27,421
Antibiotics ...	58,863
Alkaloids ...	70,553
Proprietary medicines ...	74,132
Unclassified medicines ...	106,440
Borax ...	85,259
Iodine ...	6,715
Menthol ...	22,218
Essential oils	
Bergamot ...	25,156
Citronella ...	19,578
Clove ...	17,409
Geranium ...	28,653
Lavender ...	4,744
Lemon ...	64,991
Orange ...	16,506
Peppermint ...	99,546
Unclassified ...	242,836

the month being £398,405. Apart from New Zealand, whose purchases, at £258,368, showed a rise of £50,000 on April 1960 and who replaced Nigeria as the second best customer, shipments to most Commonwealth countries were down compared with a year ago. That total medicinal exports were up on April 1960 was due in the main to improved sales to Middle East countries, in particular Egypt, and to European countries. Shipments to the Irish Republic were also higher at £146,326 (£117,913) but those to the United States slumped to £64,052 (£208,596) whereas total exports to the U.S. fell by 35 per cent.

Imports of prepared medicines were, at £337,409, at a more reasonable level than in the first quarter of the year, when the average monthly rate was £526,000.

### A PHARMACIST'S ANTHOLOGY "PROPER STRONG" MEDICINES

From *Village Idylls* by S. L. Bensusan

MRS. WOSPOTTE says these methods are sound. "I fetch me medicines when the moon's young," she explains, "and they're proper strong time that's old. . . ." For the last week or two Mrs. Wospottle has been so busy that three and four patients at a time have waited for her ministrations. There is a rumour in the village that the doctors are going on strike, a rumour sedulously encouraged by the Wise Woman. By the fire—the red cloak over her shoulders, the steeple-crowned hat on her head, and three jars of medicine (?) on the table—she consoled Martha Thorogood, whose little girl has a sore throat.

"You don't want to bring the girl here, Martha," explained Mrs. Wospottle, "I ain't one o' them doctor fools what want to go examining everybody and everything. I should hear the Government bin an' found 'em out at last; about time, to my thinkin'. They want more pay, the rascals. I reckon I do more good f'r less money than any three on 'em put together. Give your Mary a mess (the local name for bread soaked in hot water) "three time a day stiddy her wittles, an' you can put a drop o' milk in it an' a spoonful o' sugar."

"She sez that hurt her cruel to swallow," said Mrs. Thorogood anxiously. "If that don't git better, pull her ears and pull 'em hard," enjoined Mrs. Wospottle. "That don't matter if she holler; it eases the throat wunnerful. An' that'll be fowrpence."

"On't ye gimme a little drop o' medicine," pleaded Mrs. Thorogood, "I brought a bottle." Mrs. Wospottle went to the window and surveyed the stars or the place in which they rested invisible. "They fare to tell me a little o' this here on't come amiss," she admitted, and poured out some of the contents of the largest jar. "That'll be sixpence altogether. . . ."

Left alone, Mrs. Wospottle shook the two smaller jars. They made no response. "Git over me I should ha' forgot to put anything in 'em," she muttered. "Comes o' being that busy." She poured some of the contents of the largest one into its smaller brethren. "Had a busy night I reckon," growled her only son a few minutes later when he looked in on his way to bed.

## Onward from Galen

MR. E. GEORGE who, besides being deputy chief pharmacist at Bristol Royal Infirmary, is well known to pharmacists who are Conference "regulars" as secretary of the local committee that organised the popular and successful Bristol meeting of the Conference in 1957, and who recently gave another demonstration of his talent, not to say genius, for organisation in the work he did to make the recent weekend school of the Guild of Public Pharmacists (*C. & D.* April 22, p. 400) so successful, is also an amateur collector



One of his recent acquisitions was the bell-metal mortar illustrated, a diagrammatic cross-section of which is added because Mr. George is seeking help in identifying the mortar. Beyond the shape and the grill-like decoration reminiscent of the portcullis in the arms of the City of Westminster, there seem few identifying characters. The mortar weighs 8 lb. 14 oz., is 5 in. high and has diameters at the base of 5 in. and at the lip of 6.6 in.



PHARMACISTS with a penchant for jokes about pharmacy (sick or slapstick) would probably enjoy "The Ballad of Dr. Crippen"—the subtitle of the musical show "Belle" now running at London's Strand theatre. The familiar story,



which might be said to have almost become part of the folklore of the country, is here treated in broad music-hall terms. It unfolds with classical inevitability behind the Edwardian plush and gilt of the proscenium of the old Bedford music hall in Camden Town. The star-crossed lovers (Crippen and Ethel le Neve) resolve temporarily to "tranquillise" the doctor's egregious wife—Belle—so that

they may have a little more time together. Tenderly they sing the simple virtues of the latest sedative: "Hyoscine, why don't we try a tin?", and in little more time than it takes to change the scene, the hyoscine is purchased from "Mrs. Hicks," the proprietress of an apothecary's shop that would scarcely look out of place in "Romeo and Juliet." If appearances are anything to go by, Mrs. Hicks's services to pharmacy might perhaps have compared unfavourably with those of Sarah Gamp to midwifery! The pharmacy scene is played in strict burlesque—seething Jekyll and Hyde" brews, pantomime pharmaceuticals, resounding explosions and a rousing chorus number—requiring audience participation—extolling "Pills, Pills, Pills":—

"Pills to cure all ills,  
For headache, backache,  
Toothache, earache . . .  
Even got some that kills . . .  
Just a great big swig  
And peace prevails.  
Come'n have another bottle of assorted pills."

The subsequent scene in which, having bought his hyoscine (just a tin), Crippen guilelessly serves a lethal high tea, which he tries (rather ineptly) to get his wife to take, is tastefully macabre, funny and finally fatal. Not unexpectedly, critical appraisal of the show has been varied. However, the moral implication of this human tragicomedy seems clear. It is, of course, a cautionary tale for pharmacists on the need for a good knowledge of posology.



"MERIDIAN," in the *Jersey Evening Post*, takes up my reference (C. & D., May 20, p. 519) to his colleague's dialect contribution "Ph'lip and Merrienne," saying that I "should have guessed" that "tchan" meant "dog." So I should, and I accept the reproof, which indeed he softens not only by applying the kind words "wittily quotes" to my paragraph, but by picking out from another page of the issue the subtitle "Sunny days of reunion in the *Connétable* Country," which he suggests would make a good slogan for Jersey. The Editor makes a present of it to the island's tourism committee.

## HOSPITAL PHARMACY FORUM

# 'TWIXT CHARYBDIS AND SCYLLA

THE recent decision by the Minister of Health to invite tenders for certain expensive drugs regardless of the ownership of patents is causing much consternation in the industry. His action has been prompted at least in part by the activities of hospital pharmacists who, in their endeavours to meet the continuous demand to economise in the drug bill, investigated the markets in Europe for certain products and were astonished at the difference in price that obtained. The tetracyclines have been mentioned both in Parliament and in the Minister's list of items that will go to tender, and are probably the item in which the greatest price differences are to be seen. It is known, for instance, that, in certain French hospitals, 50-mgm. tablets of tetracycline hydrochloride are purchased at 20 per 1,000, whereas the price in Britain is around £65 per 1,000 in hospital quantities. The Minister evidently has information of a similar kind regarding the other commodities he has mentioned: chlorothiazide and chloramphenicol.

Naturally the industry is concerned to know whether the list will stop at three, and whether the Minister's procedure will be applied to a large number of drugs. They will argue that it is unjust to compare the prices charged by foreign manufacturers who disregard patents, and who carry out little or no fundamental research, with the prices charged by firms that carry a large and expensive research organisation and bear the cost of many failures for every successful drug they produce. Hospital pharmacists, working as they do, close to the clinical aspect of drug treatment, and often playing some part in organising trials or providing help to the clinician in the selection of drugs, must be aware of the great advances that have been made by research workers in the industry, and of the inestimable benefits to patients from many of the drugs produced. They are also aware of the generous support given by the industry to research in the hospitals and universities, and in many cases to the advancement of the profession by their support of the British Pharmaceutical Conference, publication of scientific papers, and many other ways.

Such activities are costly and must eventually be reflected in the revenue derived from sales. Here the hospital pharmacist finds himself faced with a dilemma. As a pharmacist he wishes to see his profession advance. He wants the industry to promote research, and eventually to produce effective drugs against tuberculosis, cancer, poliomyelitis and the rest. He rejoices with the community at large when such successes are achieved. On the other hand he is irritated by the multiplicity of trivial but expensive proprietaries that are constantly pushed under his nose, and the doctor's. He is irritated, too, by the apparently expensive methods of sales promotion used by some of the manufacturers. Perhaps he may be forgiven for being irritated

also by the well-groomed young men in immaculate motor cars who have expense accounts and who appear to have a much more comfortable standard of living than his own, yet whose responsibility and contribution to the general weal he believes to be less than his own.

The hospital pharmacist is concerned with effective therapeutics, but he is also, by the very nature of his job, committed to seeking the least expensive ways of achieving it. When price differences of the order mentioned above are revealed, it is not surprising that he should feel that perhaps the good case made out in the interests of research is stretched beyond its reasonable limit.

Is his loyalty first to the hospital, to seek the best prices he can find consistent with quality adequate for the purpose, or is it to the profession and to future research regardless of price? Unfortunately he is not in possession of enough information as to the facts of the case. He is bound to be influenced by the consideration that some of the same companies who seem to be charging excessive prices in Britain—or their parent companies—have been under heavy fire for similar reasons, in America from Senator Kefauver.

How can these apparently irreconcilable claims be resolved? It may be that, if all were known about the profit margins and the research costs, the price differences could be justified. It is not enough, however, that justice should be done—it must also be manifestly seen to be done. The minister's new approach could, if pursued too far, so undermine the confidence of manufacturers in planning their research programmes as seriously to hinder pharmaceutical research. If, for the sake of saving a million pounds or so, that should happen, is there not a moral and social responsibility on the Minister to provide funds directly to promote research—for example by the use of the Department of Scientific and Industrial Research or similar grants for the maintenance of research institutions in the industry?

Could it not be arranged that the manufacture and sale of drugs were made more competitive by the issue of compulsory licences after an initial period of protection, with appropriate compensation to the originators of the drug by a subsidy to their research institutes?

In that way the purchaser, which in Britain is virtually the Government would have greater certainty that the prices of drugs were not exorbitant, and that the revenues from sales were being fairly distributed as between research and investors dividends.

Until some such development takes place the hospital pharmacist is still likely to find himself trying to steer between Charybdis and Scylla.

# GUIDE TO NEW MEDICAMENTS

Information about proprietary products supplied principally on prescription. Reprints on perforated gummed paper for affixing to index cards are obtainable from the Editor. Notes on the products are given on p. 580.  
THE CHEMIST AND DRUGGIST Guide to New Medicaments, June 3, 1961

## A STRA FER I-V injection

MANUFACTURER: Astra-Hewlett, Ltd., King Georges Avenue, Watford, Herts.

DESCRIPTION: Dark brown solution for injection containing 20 mgm. of iron (as a high molecular weight carbohydrate complex) per mil.

INDICATIONS: Simple iron deficiency anaemias, where oral therapy has failed or is contraindicated.

CONTRAINDICATIONS: Pernicious anaemia; leukæmia; bone marrow depression; liver damage.

DOSAGE: A trial dose of 2 mils ( $\equiv$  40 mgm. of iron), followed by up to 5 mils ( $\equiv$  100 mgm.) daily (calculated according to the haemoglobin deficiency on the basis that 25 mgm. for men and 35 mgm. for women will raise the haemoglobin level by 1 per cent.). Intravenous.

HOW SUPPLIED: In packs of five and twenty-five 5-mil ampoules.  
FIRST ISSUED: April 1961.

THE CHEMIST AND DRUGGIST Guide to New Medicaments, June 3, 1961

## D ANT YL powders

MANUFACTURER: Leo Pharmaceutical Products, Ballerup, Copenhagen, Denmark. DISTRIBUTOR: Leo Laboratories, Ltd., 223 Kensington High Street, London, W.8.

DESCRIPTION: Powders, packed in sachets, each containing 3 gm. of phenyl *p*-aminosalicylic acid, 1 gm. of *p*-aminosalicylic acid and 3 gm. of sucrose. Antituberculous.

INDICATIONS: Tuberculosis; particularly for patients who cannot tolerate P.A.S. because of gastric upset.

CONTRAINDICATIONS: Allergy to P.A.S. Care should be taken when treating diabetics because of the sucrose content.

DOSAGE: The contents of one sachet in milk or water three times a day, preferably with meals.

HOW SUPPLIED: In boxes of thirty and 100 sachets.

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THE CHEMIST AND DRUGGIST Guide to New Medicaments, June 3, 1961

## P E R I A C T A N tablets

MANUFACTURER: Merck Sharp & Dohme, Ltd., Hoddesdon, Herts.

DESCRIPTION: White half-scored tablets, each containing 4 mgm. of cyproheptadine. Antiallergic.

INDICATIONS: Hay fever, vasomotor rhinitis, urticaria, angioneurotic oedema, dermatitis, pruritis, drug and serum reactions; bronchial asthma; insect bites.

DOSAGE: To be given daily, in divided doses. Adults, 12-16 mgm. daily initially; later adjusted according to response. Children (2-14 years), 6-8 mgm. daily initially, increased if necessary.

SIDE-EFFECTS: May cause drowsiness.

HOW SUPPLIED: In bottles of 100 and 500.

FIRST ISSUED: April 1961.

THE CHEMIST AND DRUGGIST Guide to New Medicaments, June 3, 1961

## T R Y P T I Z O L tablets

MANUFACTURER: Merck Sharp & Dohme, Ltd., Hoddesdon, Herts.

DESCRIPTION: Blue or yellow tablets, respectively containing 10 or 25 mgm. of amitriptyline. Antidepressant.

INDICATIONS: Manic-depressive reaction (depressed phase); involutional melancholia; reactive (exogenous) depression; schizoaffective depression; neurotic depressive reactions.

CONTRAINDICATIONS: Glaucoma.

DOSAGE: 25-50 mgm. three times a day initially; reduced according to response.

HOW SUPPLIED: In bottles of thirty (25 mgm. only), 100 and 500 (10 and 25 mgm.).

SUPPLY RESTRICTIONS: PI, S.4B

FIRST ISSUED: April 1961.

THE CHEMIST AND DRUGGIST Guide to New Medicaments, June 3, 1961

## E N D U R O N tablets

MANUFACTURER: Abbott Laboratories, Ltd., 8 Baker Street, London, W.1.

DESCRIPTION: White or pink tablets (engraved "A"), respectively containing 2.5 or 5 mgm. of methyclothiazide. Loop-acting diuretic.

INDICATIONS: Oedema and hypertension.

DOSAGE: 2.5-10 mgm. daily.

PRECAUTIONS: Serum electrolyte balance may be disturbed by high doses.

HOW SUPPLIED: In bottles of twenty-five and 100.

FIRST ISSUED: April 1961.

THE CHEMIST AND DRUGGIST Guide to New Medicaments, June 3, 1961

## G I N A tablets

MANUFACTURER: Bayer Products, division of Winthrop Group Ltd., Winthrop House, Surbiton, Surrey.

DESCRIPTION: White uncoated tablets, each containing 10 mgm. of propatynitrate. A coronary vasodilator.

INDICATIONS: Prevention and relief of angina pectoris.

DOSAGE: To relieve pain: one tablet at first warning of attack. Prophylactically: one tablet three times a day.

SIDE-EFFECTS: As for glyceryl trinitrate, but less severe.

HOW SUPPLIED: In container of 100.

FIRST ISSUED: April 1961.

THE CHEMIST AND DRUGGIST Guide to New Medicaments, June 3, 1961

## L U C O F E N tablets

MANUFACTURER: William R. Warner & Co., Ltd., Eastleigh Hants.

DESCRIPTION: White sugar-coated tablets, each containing 2 mgm. of 1-(*p*-chlorophenyl)-2-methyl-2-aminopropane hydrochloride. Anorectic.

INDICATIONS: Overweight, including obesity associated with cardiovascular disease or pregnancy. In obesity of hormonal origin, adequate adjunctive therapy is indicated.

DOSAGE: One tablet three times a day before meals, or three tablets with breakfast.

HOW SUPPLIED: In bottles of fifty and 500.

SUPPLY RESTRICTIONS: Recommended on prescription only.

FIRST ISSUED: May 1961.

THE CHEMIST AND DRUGGIST Guide to New Medicaments, June 3, 1961

## M I T R O N A L tablets

MANUFACTURER: G. D. Searle & Co., Ltd., Lane End Road, High Wycombe, Bucks.

DESCRIPTION: Scored yellow tablets, each containing 15 mgm. of cinnarizine. Antihistaminic.

INDICATIONS: Hay fever, chronic allergic rhinitis; allergic skin disorders. Effective in the control of vertigo.

DOSAGE: Adults (average), one tablet three times a day. Children (average), half a tablet three times a day.

SIDE-EFFECTS: May cause drowsiness.

HOW SUPPLIED: In bottles of fifty and 250.

FIRST ISSUED: April 1961.

THE CHEMIST AND DRUGGIST Guide to New Medicaments, June 3, 1961

## M Y C I F R A D I N V E R I D E R M

MANUFACTURER: Upjohn Ltd., Fleming Way, Crawley, Sussex.

DESCRIPTION: A topical preparation containing 0.5 per cent. of neomycin sulphate in a skin lipid (Veriderm) base.

INDICATIONS: Pyogenic skin infections.

METHOD OF USE: Applied twice to five times a day.

HOW SUPPLIED: In 1-oz. tube.

SUPPLY RESTRICTIONS: Therapeutic Substances Act.

FIRST ISSUED: May 1961.

# ROYAL SOCIETY

## Research exhibits at conversazione

A CONVERSAZIONE organised recently by the Royal Society, and held at the Society's headquarters, included demonstrations of some of the latest scientific techniques, apparatus and discoveries.

Drs. D. F. Elliott, R. H. Fox, S. M. Hilton and G. P. Lewis (National Institute for Medical Research) put on an exhibit illustrating the chemistry and pharmacology of bradykinin and its possible rôle in physiological and pathological reactions. Pharmacologically, bradykinin is a highly active polypeptide that is believed to exert important functions in physiological and pathological conditions. Recently obtained in a pure state, its structure has been elucidated and the polypeptide synthesised. The molecule is composed of five amino-acids arranged in a sequence of nine. Its main pharmacological actions are vasodilation, increased vessel permeability, migration of leucocytes, pain production and smooth muscle contraction. The compound is the most potent vasodilator known (less than one-millionth of a gram is effective) and probably plays an important rôle as mediator of the vasodilatation that accompanies glandular activity. In pathological reactions bradykinin is thought to be mediator of the acute inflammatory response.

The exhibits of Dr. W. M. Court Brown (M.R.C. Clinical Effect of Radiation Research Unit, Edinburgh) and Dr. C. E. Ford (M.R.C. Radiobiology Research Unit, Harwell) demonstrated the results obtained from cytogenetical studies in murine leukaemia and the current status of comparable studies in human leukaemia. It is now possible to get good preparations of human leukaemia cells from bone marrow and blood, though it is first necessary for the cells to undergo a short incubation period outside the body. One important new finding is that an abnormally short chromosome is present in the majority of cases of chronic myeloid leukaemia, and is characteristic of the disease as such. It is expected that the study of that chromosome—the Philadelphia chromosome (see also *C. & D.*, March 11 p. 252)—may enhance the efficiency of the future treatment of that form of cancer.

### Queen Substance

The function, isolation and synthesis of "queen substance," described as a honey bee pheromone (a hormone-like substance of external secretion) was the subject of a display by Drs. C. G. Butler (Rothamsted Experimental Station, Harpenden, Herts), R. K. Callow, and Miss W. C. Johnson (National Institute for Medical Research). The queen of a honey bee community has now been shown to produce in her mandibular salivary glands, a secretion containing (a) a scent that attracts worker bees and (b) a substance that plays an important part in regulating the social life of her community. Provided worker bees obtain sufficient of the material they are inhibited from rearing further queens and their ovaries fail to develop. Methods of demonstra-

ting the presence and some of the functions of queen substance were shown, and two methods of biological assay illustrated—by inhibition of the construction of queen cells and by inhibition of ovary development in workers. The active substance has now been isolated and identified as 9-oxodec-*trans*-2-enoic acid. Further investigation of the properties of oxodecanoic acid and its applications in practical beekeeping have been facilitated by a recently devised method of synthesis.

Dr. R. E. Burge and Mr. G. H. Smith (King's College, London) demonstrated two structural and one working models developed on the basis of x-ray diffraction studies of a bacterial flagellum. From detailed analysis two structures were postulated. The models comprise either three or seven associated bundles of a limited number of  $\alpha$ -helices. Neither model includes a mechanism in any way similar to muscular action. If the flagellum is the instrument of bacterial motility, it would appear that the necessary driving force must be exerted at the base in the "basal granule." That was clearly demonstrated by the working mechanical model.

### "Radio Pills"

The application of modern methods of miniaturisation have made it possible to construct complete radio transmitters fitted with transducers, the whole assembly being so small that it can be easily swallowed. "Radio pills," so called, can move freely through the gastro-intestinal tract without discomfort to the patient. It is possible for them to measure physiological variables such as pressure, temperature and pH. The data is transmitted, picked up by a small loop aerial, connected to a special receiver and then recorded. Other sub-miniature transmitters of approximately fountain-pen size, designed to be attached to the outside of the body and with a much greater range, have also been constructed. The simplest version accepts voltages as low as 1 mV directly and may be used for cardiogram transmission. The technique—micro-telemetry—should enable measurements to be made on unencumbered subjects during normal activity.

Dr. R. Davies (Wantage Research Laboratory, A.E.R.E., Wantage, Berks) demonstrated a protective effect of radiation against damage by further radiation. The numbers of somatic mutations produced in clover plants exposed to acute and split doses of gamma radiation were compared. A single acute dose usually gave more mutations than a similar total dose given as two separate treatments. Moreover the reduction on fractionating the dose was such that fewer mutations were produced than would be expected from the summed effects of the two treatments, i.e., there was an induced protection. Growth, as measured by leaf production was usually unaffected by such a fractionation of the dose. The development of the protective effect appears to be dependent on several factors, including temperature, time and dose.

Recent work on the root nodules of leguminous and other plants was the subject of a display by Dr. P. S. Nutman (Rothamsted Experimental Station and the Royal Botanic Gardens, Kew). Nodules of leguminous plants are a result of bacterial invasion; the etiologies of the non-legume nodules are uncertain. A bacterial isolate from a root nodule infects only a limited range of other species of legumes. The display of nodulated plants showed that botanically related species tend to be in the same cross-inoculation group. Work in the U.K. on the mechanism of infection of the leguminous root hair by nodule bacteria, and in Sweden and Hungary on bacterial transformation in *Rhizobium*, suggest that cross-inoculation group specificity is determined by the type of polysaccharide produced by the bacteria.

Dr. J. Dyson (Associated Electrical Industries Research Laboratories, Aldermaston Court) exhibited an image-splitting microscope for precise measurement. The instrument uses a principle known for 200 years in astronomy, whereby two identical images are formed that can be moved relatively to each other. The two images are set edge to edge, then crossed over and the setting repeated. The diameter is then obtained by ascertaining the amount of relative motion between the two settings. The accuracy of setting attainable is about ten times better than the microscopic resolution would suggest. The microscope consists primarily of two prisms and a micrometer which is plugged into an ordinary microscope in place of an eyepiece. In the laboratory the instrument has been employed for the measurement of blood cells and fine particles.

### Gas Analysis

Dr. B. M. Wright (National Institute for Medical Research) demonstrated a new method of kinetic gas analysis which makes use of two physical properties of a gas, its viscosity and the velocity of sound in it. When a gas is drawn through an orifice, the flow rate reaches a limiting value such that the velocity of the gas in the orifice is equal to the velocity of sound. If the flow rate is measured by the pressure drop across a capillary, the drop will be a function of the velocity of sound and the viscosity of the gas. The method is suitable for a number of gases of medical and commercial interest such as  $\text{CO}_2$ , helium,  $\text{N}_2\text{O}$ , halogenated hydrocarbons and petroleum vapours. A  $\text{CO}_2$  analyser based on the principle is at present being used by the Himalayan Scientific and Mountaineering Expedition and is reported to be operating satisfactorily at an altitude of 20,000 ft.

"Effects of a Pyrimidine Analogue on Flowering and Tissue Differentiation in Hemp" was the title of the exhibit of Professor J. Heslop-Harrison and Dr. Y. Heslop-Harrison (Department of botany, University of Birmingham). The pyrimidine (2-thiouracil) partly annuls the effect of photoperiodic induction in the dioecious short-day plant *Canna*.

*bis sativa* when it is supplied daily at the onset of the dark period. The flowering of female plants is almost wholly eliminated; male plants may produce a few flowers, but they are commonly inter-sexual. The treatment also produces aberrations of cell differentiation in the immediately succeeding generations of leaves. Tracer studies show that the 2-thiouracil becomes bound in cellular RNA, suggesting that the morphogenesis results from an interference with the mechanism of nucleic acid metabolism.

Dr. B. E. Juniper (Botany School, Oxford) showed electron-microscope photographs exhibiting stages in the division of the plant cell. The synchronised transformations involved in the breakdown and re-formation of the nuclear membrane and cell wall were to be seen at magnifications of 13,200 to 30,000. The tissue was fixed in potassium permanganate and embedded in Epon resin. The sections from which the micrographs were made were approximately 500 Angstroms thick.

Dr. J. P. Cooper and Professor P. T. Thomas (Welsh Plant Breeding Station, Aberystwyth) have been investigating reproductive unbalance as a consequence

of selection in rye-grass. Their exhibit showed the unbalancing effect on fertility and on the physiology of meiosis of selection for a single primary character (date of ear emergence) in two local populations of perennial rye-grass (*Lolium perenne L.*). The primary character shows a high heritability, with rapid and immediate response to selection, and by the sixth generation has progressed well outside the range of the original populations. That extreme response to selection is, however, accompanied by a marked decrease in both male and female fertility and by a marked increase in the variation in fertility within each selection line. The reduction in fertility is additionally associated with a range of developmental abnormalities, both before and during meiosis.

In the reception hall were on display the mace of the Royal Society, presented by King Charles II in 1663; the Charter Book of the Royal Society, which contains the signatures of the Royal Patrons and of the fellows of the Society; and gifts received on the occasion of the tercentenary and a selection of the tercentenary congratulatory addresses.

## THE AMERICAN SCENE

### A review of pharmacy in the United States

"PHARMACY in America" was the subject of an address by DR. A. H. BECKETT (head of the school of pharmacy, Chelsea College of Science and Technology) to members of the South-east Metropolitan branch of the Pharmaceutical Society recently. Dr. Beckett showed a selection of colour slides of the American Scene, including some of the more important American universities and their schools of pharmacy. He made special mention of the school at Madison which, he said, had profoundly influenced the study of pharmacy in the United States. The University of Wisconsin, of which it was a part, accommodated about 20,000 students. The University of Minnesota in Minneapolis was even larger, with 28,000 students, later to be increased to 45,000. A university sports stadium might accommodate up to 60,000 people. Comparing pharmacy in the U.S. with that in the U.K., he said the ratio of pharmacists per head of population was not dissimilar in the two countries, though more women were engaged in pharmacy in Britain, and more pharmacists in industry in Britain than in the States. In the United States, retail pharmacy was practised "in the broadest sense" with soda fountains and paper-backed novels generally more prominent than the dispensing counter. The American pharmacist was primarily a purveyor of merchandise, and much intensive propaganda was being circulated in an attempt to improve professional standards. Until fairly recently, American hospital pharmacy had suffered from lack of organisation, but recent steps were resulting in an improved status.

Dr. Beckett described the impact which changes in educational concepts were having on American pharmaceutical manufacture. More pharmacists were being employed in pharmaceuticals re-

search with a marked swing towards formulation research, especially upon sustained drug release under accurate control and the use of ion-exchange resins. America had seventy-four schools of pharmacy, some State-financed, some privately owned. Several privately-owned schools such as that at Philadelphia, were well known. There were high rewards for newly qualified pharmacists, the average commencing salary being about \$100 a week, but the cost of training was much higher than in Britain, a general figure being about \$600 per annum in tuition fees alone. There were no State grants, and students had to pay their way. It was not uncommon for married quarters to be found on a campus, since many married men worked their way through college. American administrators, said Dr. Beckett, did "a first-class job in selling pharmacy as a career to high-school pupils." The pharmacy course extended over five years in most American universities. At intake, students were about two years behind their British counterparts, and the academic standard of the degree was, in general, lower than that of the University of London B.Pharm.

Strong emphasis was placed on physical aspects of pharmacy. Many schools had their own retail pharmacy, which was operational in every sense. Under supervision, students dispensed genuine prescriptions for members of the public, in the conditions they would encounter in general practice later. The British and the American systems of pharmaceutical training, had each their advantages and drawbacks, and Dr. Beckett advocated an additional degree in Britain based on the American concept of a thorough training for the general practice of pharmacy.

Before they could be registered as pharmacists, American graduates had to

sit for separate examinations in dispensing and forensic pharmacy set by the State Board, which was independent of the universities. The graduate had, in general, to serve one year apprenticeship. There was as yet incomplete reciprocity between States in the recognition of pharmacy degrees, and a pharmacist might, on moving in certain States, find that he had to take a course and the State Board examination.

## PRICING PROCEDURE

### Lecture to Leeds Branch

MR. A. HARGRAVES (superintendent, Wakefield Pricing Bureau) talked to members of the Leeds Branch of the Pharmaceutical Society in Wakefield recently. He told his audience that fifteen bureaux throughout the country priced approximately 200 million prescriptions annually and an additional bureau was set aside for the investigation of prescribing. Of that number 1 million were priced by a staff of ninety-seven (of whom only three were male) at Wakefield. So soon as packs of prescriptions were received, the number of forms in each was counted, and the sender notified immediately of any errors. A working docket was then attached to the scripts, which remained with the pack during its passage through the bureau. Additionally, a coloured wrapper enfolded the pack, a different colour being used for each Executive Council area. Pricing was done by specially trained girls and most prescriptions gave little pricing difficulty. Awkward ones were referred to senior girls. After pricing the bundles went to the machine section, where the net ingredient cost and dispensing fees were totalled, and oncost and container fees added. The average for each prescription was recorded on the back of the working docket. If there was an abnormal fluctuation compared with a previous month, the bundle was referred back to the contractor. 2½ per cent. of prescriptions were taken each month for checking by the Central Checking Bureau. It took, said the speaker, about a year to train a girl for the work. Staff was recruited locally, education to G.C.E. standard being required. A good worker could price up to 2,500 scripts a day. The speaker stressed that bundles should be carefully packed, using many layers of stout paper, and string and the parcel registered. Tape, he suggested, could be unsatisfactory for wrapping purposes. Loss in transit occurred only rarely. On one such occasion he recalled a figure was allowed on the declaration by the contractor of the number of scripts sent. Eventually the bundle came to hand and was priced. The discrepancy was a matter of shillings only. Mr. Hargraves said he regretted having to return so many elastic hosiery prescriptions to contractors for trifling alterations by the prescriber. He would like to see more latitude given to the contractor when a prescription was not completely written, but could do nothing about it, being bound by Drug Tariff instructions. A further point he mentioned was that prescriptions endorsed by chemists should show the size of pack used and not the net ingredient cost of the quantity supplied.

# FRANCO-BRITISH PHARMACEUTICAL CONGRESS

(Concluded from THE CHEMIST AND DRUGGIST, May 20, p. 511)

DEALING from his side with pharmacy as an indispensable public service, M. LESUR said the subject proposed by the Commission was vast. It could be treated according to the very different perspectives attaching to (a) the object—the medicament; (b) the person who delivered it—the pharmacist; or (c) the "victim"—the sick person. His exposition would be in three parts, the first concerned with the place of retail pharmacy within current social and human needs. The second would try to show how retail pharmacy answered the need, and the third how retail pharmacy "puts man in the service of man."

He went on:—Health is an essential without which neither the individual nor society can flourish. Socially it may be considered under two aspects:—

The individual aspect—the personal health of each man. A sick person is first of all an individual being with needs to be satisfied.

The community aspect—health is a common asset which must be preserved or re-established if society is to develop harmoniously—hence it is called public health.

Health, whether public or personal, is entering into more numerous and varied fields of social life. It is therefore inevitably demanding special supervision and the appropriate means of ensuring it are becoming the object of careful control. The pharmacy is one of the indispensable means for ensuring that control, as much on the private and individual level as publicly and collectively.

Humanly, sickness is first of all a personal and private event. The patient is primarily an individual. Because he is a social being, he has to conform to the rules laid down by the community for his protection, both for his personal benefit and for that of society. Nevertheless, as an individual person he has private needs. It follows, therefore, that he has the right to the maximum of personal liberty compatible with the needs of the community. Sickness threatens the integrity of the man. It is not only a physical (or physiological) phenomenon calling for the satisfaction of material needs at the hands of expert practitioners. It is also a moral phenomenon. Its needs compel the intervention of man.

### What Pharmacy Provides

The pharmacy provides admirably for those different needs on the economic level by its integration into the economic and social organisation of the country; on the technical level by the skills that it offers to the individual and to society; on the human level by the direct participation of the pharmacist in service to his fellow citizens.

Pharmacy brings medicine as close as possible to the patient in the best conditions possible. The word "medicine" embraces here all the activities of the pharmacist in general practice from the extemporaneous manufacture of the chemical substance or galenical undertaken in the pharmacy, the packing and dispensing of the speciality

(product bearing a trade mark) right through to those activities which call for the employment of physical methods, such as optics or acoustics, or biological methods such as the analytical laboratory.

"As close as possible to the patient." The pharmacy is really a first-aid post where a sick person can satisfy the most varied needs in the most favourable conditions of convenience, rapidity and suitability. That necessity is so natural that in many countries the siting of pharmacies is determined by means of an official scheme.

"In the best possible technical and practical conditions." The quality and the safety of this function of the pharmacy stems from the university education of the pharmacist, or the sum total of the knowledge and material conditions of work which are required of him, the responsibility attached to everything he does, and the control imposed upon all his actions.

### Pharmacy's Social Function

The therapeutic and industrial evolution of medicine results only in broadening the extent of the knowledge needed by the pharmacist in general practice. It has made more indispensable the responsibility which he is called upon to exercise and the guarantee which he has to bear as between the doctor who prescribes and the patient who uses.

The economic and social evolution of medicine has encouraged the growth of social organisations having the task of putting at the disposal of all patients, rich or poor, the same means of treatment. In every country pharmacy has adapted itself skilfully to the necessary collaboration with those organisations, thus assuring a satisfactory protection to the public in an atmosphere of free choice.

The pharmacy guarantees to a man the services of another man, and in this way respects the human aspect of sickness. The one imperative that dominates a pharmacist's exercise of his profession is the cure of the patient. To secure it, he must bring all his resources into play so that the service he renders is the best that can be offered. In return, he has the right to enjoy independence, that is to say to be sheltered from economic or administrative pressure (which is the reason why in France he is required to be the owner of his pharmacy).

The pharmacist fills a real function as an educator in health and social problems by the information, advice and counsel which he is expected to give, by the solitude and discretion which he brings to his contacts with the patient. That double rôle of the pharmacist in retail practice has as its corollary and as its sanction the right of the patient to the free choice of a pharmacist who has earned his confidence. It is in that freedom of choice that the patient finds his best guarantee and, at a psychological level, a moral factor in healing which is most precious. In fine the pharmacy constitutes an indispensable human and social necessity, a true pub-

lic service for the benefit of the human individual.

After a break for coffee the meeting was thrown open to discussion. DR. I. MICHAELS, London, said Mr. Aldington's figures made him wonder whether what seemed to him the attraction of practising as a retail pharmacist, namely the independence it gave, was not a pipe dream. If three or four private pharmacies in an area were to combine to form one larger unit, what safeguards were there that others would not step in and open in place of the closed pharmacies?

MR. A. G. M. MADGE, Plymouth, said recent changes in the rewards to chemists for National Health Service dispensing made it doubtful whether that side of the business was still profitable and it seemed likely that they would have to make up in other, less pharmaceutical, ways.

MR. C. W. ROBINSON, Liverpool, refuted what he took to be the purport of M. Lesur's statement "The pharmacist in industry is the prisoner of his own speciality." In Britain, he said, there was no better place in which the pharmacist had the opportunity to exercise his professional virtuosity. From the chair MR. GRAINGER suggested that there may be a division in pharmacy between those who find technical problems the most rewarding outlet for their abilities and those—in retail and hospital pharmacy—who set more store by human contacts.

PROFESSOR M. GUILLOT, Paris, said that a crisis existed today in most professions. All were complaining of changes and difficulties, and advising their offspring into other callings. All must adapt themselves to new and revolutionary conditions. It was true that the pharmacist could practise his technical skills more agreeably in industry than in the shop, but retail pharmacists should realise that their colleagues in industry faced just as many frustrations as they.

What powers, asked MR. SWIRE, Halifax, had the Minister of Health in France to alter without consultation the economic position of pharmacists? That was what had happened in England. No other profession made such strong personal demands. The pharmacist was virtually on duty twenty-four hours of the day, and not enough of that situation was made in official quarters. It was a serious matter that the side of a retail chemist's activities that had formed the basis of his training might become unprofitable.

### "A State of Crisis"

MR. J. HOURTIQUE, Paris, speaking as a "synthetic pharmacist" (he is legal adviser to the Ordre National) asked whether pharmacy was really a commerce. If so, it was a strange commerce—the only one requiring six years of study and a diploma, the only one more orientated to service than to profit, and (alone among trades) grouped in an Order involving possible discipline. If pharmacy were a public service, then it must involve a certain amount of servitude, and servitude imposed limits

on exercise of the profit motive. What a lawyer was to justice, the pharmacist was to the nation's health, and it would always be a part of the constitution of the country. That did not satisfy the pharmacist's demands for money and social standing. But pharmacy in all the world was in a state of crisis and everybody in a responsible position in the profession must turn his mind to solving the crisis problems.

### Larger Units

MR. H. L. CROSSLEY, London, said he had tried to put into practice the "larger units" suggestion of Mr. Aldington by going into partnership with another pharmacist in a bigger business. Problems had arisen but he thought they were resolvable: both partners were financially better off. Though redundancy might exist in some urban areas, it was difficult, for economic reasons, in some "fringe" areas, to provide people with the service they needed. He would like to see some method by which the services of a pharmacist could be made readily available to citizens in all parts of the country.

MR. W. W. LOUVELL, London, said it seemed to him that some of the troubles arose because the profession was a marriage of high academic qualifications with commerce. The solution might be a dissolution of the marriage. The retail pharmacist was not a member of a "free" profession because he was bound by commercial necessities. Capital was being concentrated into fewer hands, and the time of the small individual business was coming to an end. The problem was whether to solve it by greater capitalist concentrations; by nationalising it; or by some intermediate method such as a co-operative syndicate.

Answers to some of the points raised were given by the opening speakers. MR. ALDINGON said that by companies he had meant companies whose finances were not in the hands of pharmacists. The intention behind the larger units was continuity—a junior partner becoming in due course senior and taking on a new junior partner. There were in Britain no safeguards of the kind Dr. Michaels sought, but it was surely not beyond the wit of man to devise them. In order to maintain their position, pharmacists needed more and more to organise their public relations.

M. LESUR said he would reply briefly to the question that the English pharmacists were asking—what competition would result if each social security office operated a pharmacy and obliged sick people to go there in order to obtain free medicines. It had been said that the National Health Service had brought prosperity and status to the pharmacist. That was good, but a brutal decision could modify completely the situation from one day to another. The situation was a little different in France, yet the same fear was present on account of the existence of mutualist pharmacies and projected modifications to them. So acute was the fear in both countries that pharmacists were hesitating to advise their offspring to take up pharmacy. Professor Guillot had given a timely reminder that all the professions were assailed by those fears, whose importance should not be

exaggerated. In pharmacy the situation might be, as Mr. Hourticq had put it, that there was agreement on dogma but that the liturgy had to be adapted to modern conditions. An "ecumenical council" of pharmacists should be called to bring about the adaptation.

At the farewell dinner on Sunday evening, following an all-day coach tour of the island, with lunch at Bouley Bay on the north coast and tea at Portelet Bay on the south, MR. GRAINGER read a message of regret from MRS. LABESSE (the only pharmacist with a French diploma practising on British soil) that she was prevented by the illness of her husband from attending. Mr. Grainger reminded members that the congresses were not the whole work of the Commission. For example, the British members had been delighted to have Professor Abel and M. Le Guinet to lecture to pharmacy schools in Scotland, and he was looking forward to an exchange visit in company with Dr. Bean.

### Conference Banquet

The conference banquet on May 13 was the occasion for some splendid oratory. After the loyal toast in its Jersey variant, "The Queen; the Duke of Normandy," and a toast to the President of the French Republic had been proposed by the chairman (Mr. H. S. Grainger), DEPUTY C. S. DUPRE (president of the States of Jersey tourism committee) proposed "Franco-British Pharmacy." His doing so represented a change of programme made sadly necessary by the sudden illness of the Bailiff of Jersey

## NOTES ON NEW MEDICAMENTS

**ASTRAFER.**—*Chemistry:* A colloidal solution of ferric hydroxide as a complex with partially hydrolysed dextrin. This product, designed for intravenous injection, enables the iron to be utilised rapidly and completely, thus eliminating the uncertainties of oral therapy. It is well tolerated by the tissues and only mild inflammation has been reported following accidental extra-venous injection. Other iron products for injection include Ferrivenin (intravenous), and Imferon, intended for intramuscular injection.

**DANTYL.**—*Chemistry:* *p*-aminosalicylic acid phenyl ester, together with the free acid. The acid, in full doses, may cause gastric disturbance and attempts have been made to modify the presentation to reduce this side effect. Dantyl represents an alternative approach because, although the ester is almost insoluble in water, it possesses a high degree of activity. Following oral administration, the drug is slowly broken down and a high proportion of the dose is absorbed, mainly as the free acid. Other less soluble forms of *p*-amino salicylic acid include the calcium salt (Aminacyl) and calcium benzamidosalicylate (Therapas, B-PAS). The latter is present with isoniazid in Therazid and B-Pasinah.

**ENDURON.**—*Chemistry:* 6-chloro-3-chloromethyl-2-methyl-7-sulphamyl-3,4-dihydro-1,2,4-benzothiadiazine-1,1-dioxide. This compound, also known as methclothiazide, is an analogue of chlorothiazide, from which it differs by the addition of a chloromethyl group in the 3-position and a methyl group adjacent to the dioxide. Those changes in structure are linked with a prolongation of activity, an increased effect and hence reduction of dose and a relatively low excretion of potassium. Other 3-substituted compounds include Navidrex (3-cyclopentyl methyl), Fovane (3-benzylthiomethyl); bendrofluazide (Aprinox, Cetyl, Neo-Naclex) contains a 3-benzyl substituent but differs in having a fluorine-containing group at the 6-position.

(Sir Alexander Coutanche). The Deputy said he was grateful that Jersey had been chosen, because the island knit in so many ways the lives of France and England. So long as those two great countries stood together, not much would be wrong with Europe. He had been told the objects of the conference, and that most of the work was of an informal kind, but in his experiences it was unique among Jersey conferences for the warmth of the many reunions he had seen taking place when the main party arrived from France. The response was by MR. FRANK ARNAL (president of the French section of the Commission) who spoke eloquently and movingly of the liberty which both Jersey and France had regained after the defeat of Hitlerism, and of the noble declaration of Anglo-French union which had been made by Sir Winston Churchill and General De Gaulle before France was overrun—a magnificent proposal which he hoped all his hearers would make the effort to realise.

"The Channel Islands" was proposed by MR. T. REID (president of the Pharmaceutical Society of Great Britain) and M. J. HOURTICQ (*Conseiller* to the *Ordre National de Pharmacie*) and responded to by the Connétable of St. Brelades (M. H. C. CHEVALLIER).

### Local Organisers

Members of the local Branch of the Society helped to organise the conference. They were Messrs. S. F. Amy (chairman); M. W. Jackson (secretary); M. Cook (treasurer); F. E. Robins, H. H. Le Quesne, R. C. de Faye and D. Dodsley.

## MEDICAMENTS

**MITRONAL.**—*Chemistry:* N-benzylhydryl-N<sup>1</sup>-cinnamyl piperazine (cinnarizine). This compound has a powerful antihistamine action associated with only mild side effects. Chemically it is related to chlorcyclizine (Diparalene, His-tantin), to thehalidine (Sandosten), to meclozine (Ancolan), and also to dimenhydrinate (Dramamine). Antihistamines of different chemical constitution are those derived from ethylene diamine (Antihisan, Pyribenzamine) and from phenothiazine (Phenergan), as well as a wide range of compounds of unrelated structure.

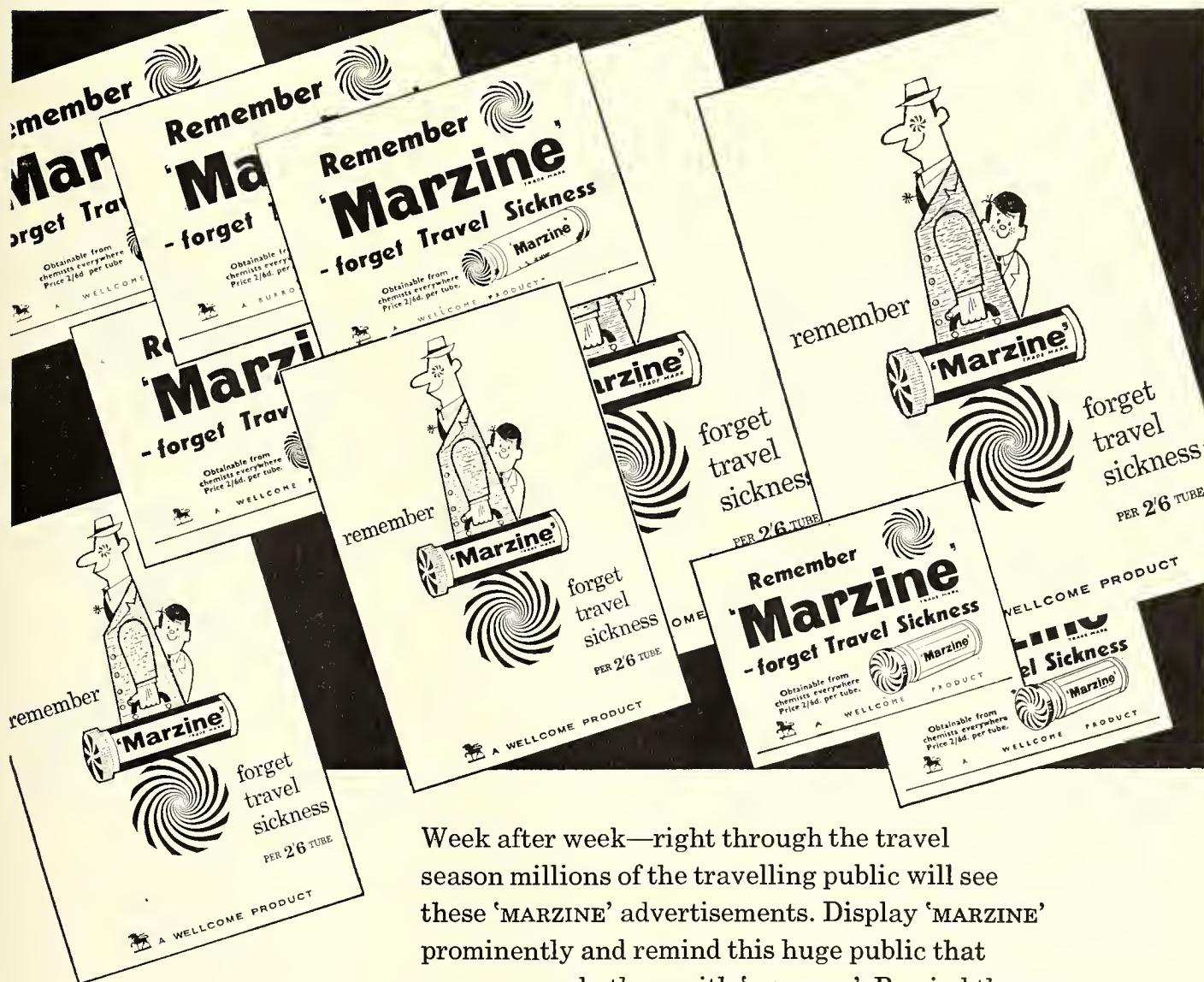
**PERIACTIN.**—*Chemistry:* 1-(1:2:5:6-dibenzocycloheptatrienylidene)-4-methylpiperidine, or cyproheptadine. This compound has the power of antagonising the action of both histamine and serotonin. Many allergic conditions do not respond completely to antihistamines and it is considered that in such cases serotonin may be the precipitating factor. A serotonin inhibitor may therefore be preferable in such conditions. Cyproheptadine, by virtue of its ability to antagonise both histamine and serotonin, is effective when either or both compounds are concerned in precipitating an allergic or pruritic attack. Other piperidine derived antihistamines of more restricted activity are represented by thehalidine (Sandosten).

**TRYPTIZOL.**—*Chemistry:* 3-(3-dimethylamino-propylidene)-1:2:4:5-dibenzocyclohepta 1:4-diene, or amitriptyline. This substance is an anti-depressant and is chemically related to imipramine. It differs from that drug by the absence of a nitrogen atom from the nucleus, and in having an unsaturated side chain at the 10-position. Some structural resemblances are also found in chlorprothixene (Taractan), which has a sulphur atom replacing the two methylene groups of the central ring. Amitriptyline is not a monoamine oxidase inhibitor, and so differs from that class of anti-depressants represented by nialamide (Niamid), imipramide (Marsilid), pheniprazine (Cavodil), isocarboxazid (Marplan) and phenelzine (Nardil).

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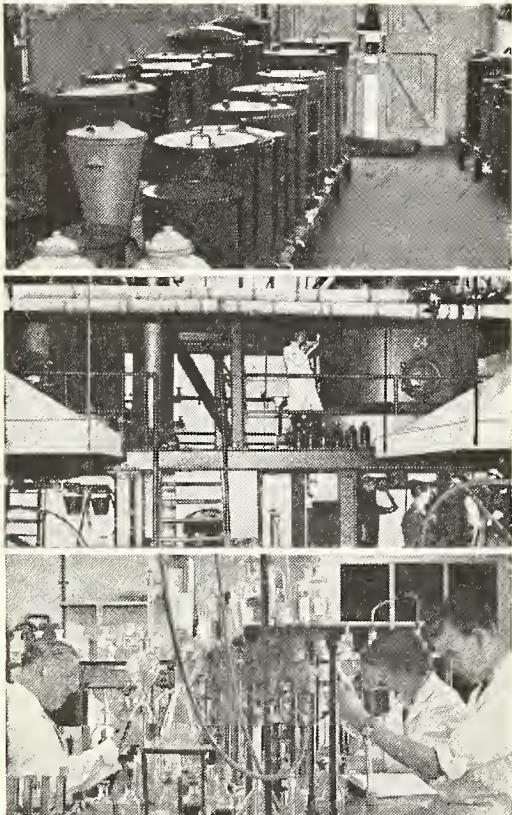
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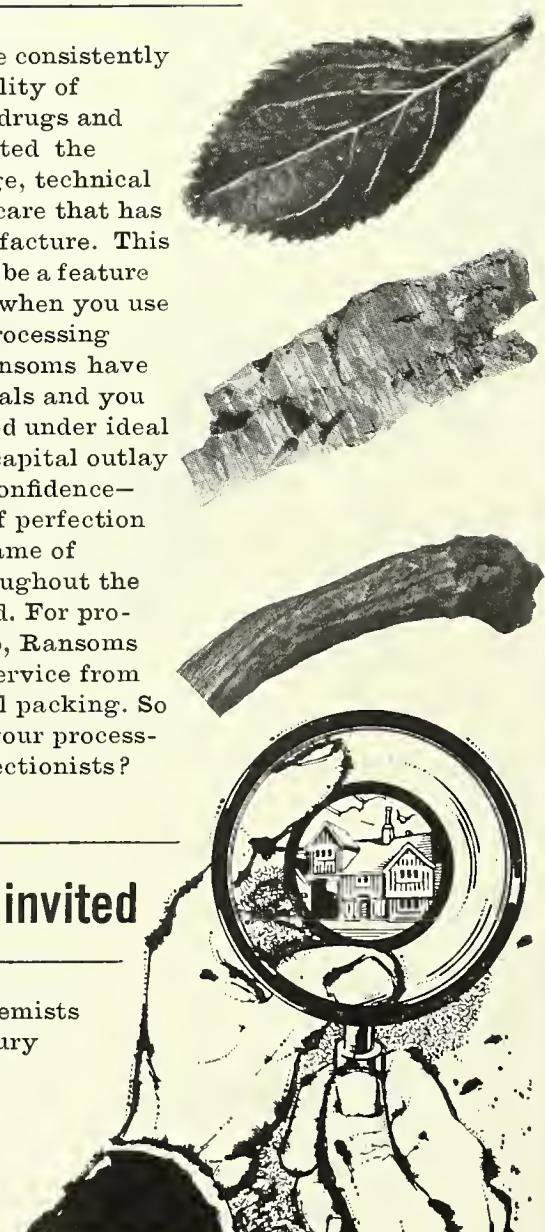
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## TRADE REPORT

The prices given are those obtained by importers or manufacturers for bulk quantities or original packages. Various charges have to be added whereby values are in many instances augmented before wholesale dealers receive the goods into stock. Crude drugs and essential oils vary greatly in quality and higher prices are charged for selected qualities.

LONDON, MAY 31: Slightly more inquiry was reported in the CRUDE DRUGS market during the week, though business transacted was still on a very limited scale.

The easier trend in MENTHOL prices was underlined still further as Brazilian and Formosan materials lost a further 2s. to 3s. per lb., according to source and delivery position. BUCHU offers were down by twopence per lb. The duty-paid quotation for COPAIBA BALAM was down sixpence per lb., while RANGULA was offered on the spot at 7s. 6d. per cwt., against 110s. recently. Firmer were most of the GINGERS, POOPHYLLUM (*peltatum*), TURMERIC for shipment, and prime yellow CARNAUBA WAX. Pepper was also slightly firmer on the spot. Exploratory talks aimed at stabilising the price of pepper began in Bangkok during the week. Under the auspices of the United Nations' Economic Commission for Asia and the Far East, representatives attended from Cambodia, India, Indonesia, Sarawak and Singapore; Traders in London were surprised that no one was invited to represent consumers.

Among ESSENTIAL OILS spot ANISE was one penny per lb. lower at 8s. and Ceylon CITRONELLA by a similar amount at 6s. 2d. in the forward position. LEMONGRASS was down threepence per lb. on the spot, but origin steadily reduced prices by about that amount each day, with the result that the shipment rates showed a loss of 1s. 1½d. per lb. on the week. Brazilian PEPPERMINT reversed its weak trend and was quoted sixpence per lb. up.

## Dearer Permanganate

POTASSIUM PERMANGANATE is increased by one-halfpenny per lb. for B.P. material and by 5s. per cwt. for technical grade. Supplies have been short for some time and any spare parcels could command upwards of £250 per ton. Meanwhile the only British manufacturer is stepping up production to meet the anticipated extra overseas demand arising out of an agreement announced during the week between itself and a Dutch chemical company. The British company is to take over the manufacture and sale of potassium permanganate for the Dutch company.

## LONDON EXCHANGE RATES

At the opening on Monday

Amsterdam..	Florins to £	10-02½-10-03
Bombay ..	Shillings to rupee	1/5 1½-1/6 1½
Brussels ..	Francs to £	139-55-139-60
Copenhagen..	Kroner to £	19-34½-19-34½
Frankfurt ..	D Marks to £	11-08½-11-08½
Hong Kong ..	Shillings to \$	1/2 3½-1/2 3½
Karachi ..	Shillings to rupee	1/5 1½-1/6 1½
Lisbon ..	Escudos to £	80-15-80-25
Malaya ....	Shillings to \$	2/3 7½-2/4
Milan ....	Lira to £	1.732½-1.732½
Montreal ..	Dollars to £	2-75 10½-2-75 10½
New York ..	Dollars to £	2-78-2-82
Oslo .....	Kronor to £	20-00-20-00½
Paris .....	Francs to £	13-67½-13-68
Stockholm ..	Kronor to £	14-39½-14-40½
Zurich ....	Francs to £	12-08½-12-09½

\*Bank of England official limits. Bank rate: 5 per cent. from December 8, 1960.

## Pharmaceutical Chemicals

ACETANILIDE. — Crystals. One-cwt. lots, 2s. 10d. per lb.; 5-cwt, 2s. 9d.

ALOIN. — Micro-crystalline, 14-lb. lots, 31s. 6d. per lb.

ANTIMONY SALTS.—CHLORIDE SOL., B.P.C., 1934, carboys, 2s. 6½d. lb.; POTASSIUM TARTRATE, 7s. 6d. per lb.; SODIUM TARTRATE, 12s. 6d.

BARIUM SULPHATE. — B.P., 250-kilo lots, 3s. 3½d. per kilo.

BENZYL BENZOATE. — B.P. in 1-ton lots, 4s. 6d. per lb.

BROMIDES.—Crystals (per lb.):—

	1 cwt.	5 cwt.
	s. d.	s. d.
POTASSIUM ..	2 6	2 5
SODIUM ..	2 6	2 5
AMMONIUM ..	2 10	2 8½

Powder is three-halfpence per lb. more, packages free, carriage paid terms.

CAFFEINE.—ANHYDROUS, less than 50-kilo lots, 33s. 6d. per kilo; MONOHYDRATE, B.P., 34s.; CITRATE, 26s. kilo.

CHLOROCRESOL.—Pharmaceutical quality, 7s. 5d. per lb. (1-cwt. lots).

CHLOROXYLENOL.—B.P., 5s. 8d. per lb. for 1-cwt. lots: 5s. 3d. per lb. for 1-ton.

DEXTROSE. — In bulk, MONOHYDRATE, £76 per ton, delivered; ANHYDROUS, £115 per ton.

DIGOXIN.—100-gm. lots, 78s. per gm.

EMETINE. — One-kilo lots. HYDROCHLORIDE, 8,642s. per kilo.

ERGOMETRINE.—MALEATE, B.P., 270s. per gm.

FORMALDEHYDE.—B.P. solution, 5 drum lots, 755s. per ton in free drums, delivered.

GLYCEROPHOSPHATES.—Per lb. in 1-cwt. lots:—ACID, B.P.C., 20 per cent., 4s. 7d.; CALCIUM, soluble, B.P.C., 12s.; IRON, B.P.C., scale, 15s. 9d. and powder, 14s. 9d.; MAGNESIUM, soluble, B.P.C., 14s. 3d.; MANGANESE, B.P.C., 27s.; POTASSIUM, 50 per cent., B.P.C., 3s. 9d. and 75 per cent., B.P.C., 5s. 6d.; SODIUM, 50 per cent., B.P.C., 2s. 7d.; 75 per cent., 4s. 6d.; 100 per cent., 8s.

GUAIACOLS. — LIQUID B.P.C., 16s. per lb., for 1-cwt. lots; CRYSTALS, 15s. 9d.; CARBONATE, 18s.

HOMATROPINE. — 16-oz. lots (per oz.): ALKALOID, 30s. 6d.; HYDROBROMIDE, 24s. 6d.; HYDROCHLORIDE, 28s. 6d.; METHYLBROMIDE, 25s. 6d. 1-oz. rates are 1s. 6d. per oz. above those rates.

HYDROGEN PEROXIDE. — 27.5 per cent. (by weight), £115 per ton; 35 per cent. £138 in returnable carboys.

LACTIC ACID. — B.P. 4s. 5d. per lb. for 12-winchester lots and 4s. 4d. for 5-cwt. lots. Edible, 80 per cent. acid, 2s. 4d. per lb. for under 1-ton lots; 12 winchesters, 2s. 8d. per lb.

MERCURY DERIVATIVES.—Current quotations (per kilo) for less than 50-kilo lots are:—AMMONIATED, B.P. lump or powder, 55s. 6d.; PERCHLORIDE, B.P., powder, 48s.; SUBCHLORIDE (calomel), B.P., 54s. 6d.; OXIDES, yellow, B.P., 57s. 3d.; red, B.P.C. 1949, 58s. 6d.

OXALIC ACID. — Scarce. Manufacturers' rates for 1-ton lots nominally £128 10s. per ton, delivered in free kegs.

POTASSIUM PERMANGANATE.—Scarce B.P. in 1-cwt. lots, 2s. 0½d. per lb. Technical, 214s. per cwt.; 1-ton lots, 203s. per cwt.

QUINIDINE.—For 15 kilos or 500 oz. or more:—

Home Trade	Per kilo	Per 100 oz.
	s. d.	s. d.
QUINIDINE ..	199 1	564 6
SULPHATE ..	260 8	739 1
ALKALOID cryst. ..	263 9	747 9
ALKALOID precip. ..	223 0	632 1
HYDROCHLORIDE ..	216 11	615 0
HYDROBROMIDE ..	221 9	628 9

Prices include tins and cases and free delivery U.K.

QUININE. — 1,000-oz. lots:—ALKALOID, 3s. 8½d. per oz.; SULPHATE, B.P., 1932, 2s. 5d.; SULPHATE, B.P., 1958, 2s. 8½d.; BISULPHATE, 2s. 5½d.; DIHYDROCHLORIDE, 3s. 5d.; HYDROCHLORIDE, 3s. 1½d.; ETHYL CARBONATE, 4s. 1½d.; HYDROBROMIDE, 3s. Quantities under 100 oz. plus threepence.

ROCHELLE SALT.—Powder or granulated, 5-cwt. lots or over in kegs, 220s. per cwt.; 1-cwt. 222s. 6d. (bags less 5s.).

SACCHARIN.—B.P.C. powder. One lb. and over, 99s. 10d. per lb.; SODIUM SALT, 80s. 10d. per lb. Prices include duty and carriage.

SALOL.—B.P.C., 9s. per lb. (1-cwt. lots).

TARTARIC ACID.—(In kegs) 1-ton lots, 298s. per cwt.; 10-19 cwt., 300s.; 5-9 cwt., 302s.; 1-4 cwt., 304s. Bags 8s. cwt. less. Crystals 7s. cwt. more than powder and granular.

TEREBENE. — Rectified, one-carboy lots, 4s. 6d. per lb.

TERPIN HYDRATE.—From 6s. per lb. upwards as to quantity.

UREA.—Pharmaceutical grade, £59 15s. per ton in 1-cwt. bags non-returnable; technical quality, £41 5s. per ton (4-ton lots).

## Industrial Chemicals, Solvents

ACETALDEHYDE.—The 100 per cent. is £122 per ton.

ACETATES.—Per ton, spot 1-ton lots: AMYL (technical), £254 and B.S.S., £256. BUTYL, £169; ETHYL, £141; ISOPROPYL, £136.

ACETIC ANHYDRIDE.—10-ton lots £126 per ton, delivered U.K. in returnable drums; 1-ton, £128.

ACETONE.—One-ton lots spot, £84 per ton in drums.

BENZOLE.—Thiophene-free, 9s. 3½d. per gall. for one 50-gall. barrel; pure 6s. 3½d. per gall.

N-BUTYL ALCOHOL.—1-5-ton lots, £159 per ton and one-ton lots, £163 per ton. SECONDARY, £130.

CARBON TETRACHLORIDE.—In 40-gall. drums, 1 ton and under 2 tons, £83 15s.; 4 tons and upwards, £82 5s.

ISOPROPYL ALCOHOL.—Technical grade (99 per cent.) in tank car lots from 4s. 8½d. to 4s. 10½d. per gall.; anhydrous in 45 gall. drum lots is 7s. 3d. gall.

METHYL ETHYL KETONE.—One-ton lots, £138 10s. per ton.

NAPHTHALENE.—Nominal home contract prices per ton for phthalic makers are around £40; spot lots £60-£70 ex works. Refined flake or ball scarce at around £80 delivered.

PHTHALATES.—Prices (per ton) one-ton lots: DIBUTYL, £206; DI-ISOBUTYL, £199; DI-ETHYL, £190 10s.; DI-METHYL, £182.

STEARATES.—Spot prices for minimum 1-ton lots:—ALUMINIUM (all grades), 253s. 6d. per cwt., CALCIUM (precipitated), 243s. 6d.; LEAD (30 per cent.), 223s. 6d.; MAGNESIUM (standard), 272s. and (superfine), 302s.; ZINC, 226s. to 286s. as to grade.

### Crude Drugs

ACONITE.—Spot: Spanish *napellus*, 2s. 6d. per lb.

AGAR.—Kobé No. 1, 14s. 9d. per lb. in bond; shipment, 14s. 3d., c.i.f.

ALOES.—Cape primes, spot, 175s. per cwt.; shipment, 155s., c.i.f. Curaçao, spot, 480s.; shipment, 440s., c.i.f.

BALSAMS.—Per lb.: CANADA: Spot, 22s. for paper-filtered. COPAIBA: Spot, 8s. duty paid. PERU: Spot, 8s. 9d. in bond. TOLU (genuine as imported) nominal; B.P., from 12s. 3d. to 17s. 9d. as to analysis.

BELLADONNA.—LEAVES, 1s. 9d. per lb., spot. Dutch for shipment (t.a. not quoted) 2s., c.i.f. ROOT cleared on the spot.

BENZOIN.—Sumatra block, spot £20 to £28 as to quality.

BUCHU.—Spot new crop, 4s. 2d. per lb.; shipment, 3s. 10d., c.i.f.

CALABAR BEANS.—Spot, 2s. 3d. per lb.

CALAMUS.—Root, 100s. per cwt., spot. 87s. 6d., c.i.f.

CAMPHOR.—B.P. powder, 3s. 10½d. per lb. in bond.

CAPSICUMS.—Chinese, on stalk, 150s., duty paid; Ethiopian, 200s.

CARDAMOMS.—Aleppy greens, 13s. 7½d. per lb., spot; shipment, 12s., c.i.f.

CASCARA.—Spot, 1960 peel, 275s. per cwt., shipment, 1961 peel, 230s., c.i.f.

CASSIA.—*Fistula*, 105s. per cwt.; *lignea* (whole), spot 420s., duty paid.

CHAMOMILE.—Belgian, 6s. 6d. to 7s. 6d. per lb. as to quality; Hungarian type, 6s. 6d.

CHERRY BARK.—Thin natural, 2s. 9d. per lb., as to holder.

CHILLIES.—Nigerian, 185s. per cwt. Mombasa, 350s.

CINNAMON QUILLS.—Shipment (c.i.f., per lb.) 4 O's, 5s. 3½d.; 3 O's, 5s. 1½d.; O, 4s. 9½d.; quillings, 3s. 3½d.; featherings, 1s. 6½d.

CLOVES.—Zanzibar spot, 2s. 10d. per lb.; shipment, 2s. 7½d., c.i.f.

COCHINEAL.—Black-brilliant, 11s. 6d. per lb., silver-grey 10s., spot; Peruvian silver-grey, 4s. 6d.

COCILLANA.—Bark, 2s. per lb., spot; 1s. 8d., c.i.f.

COLOCYNTH PULP.—Spot, 2s. to 2s. 6d. per lb. as to quality.

DIGITALIS.—*Purpurea* for shipment, old crop, 11d.; new crop, 2s. 4d. per lb., c.i.f.

ELEMI.—Spot, 2s. 1d. per lb. Shipment, 1s. 11d., c.i.f.

ERGOT.—Portuguese 7s. 9d. per lb., c.i.f., for prompt shipment; spot, 8s.

FRANGULA.—Spot, 87s. 6d. per cwt.

GENTIAN.—Spot: French, 150s. per cwt.

GINGER.—African, spot, 175s.; new crop for shipment, 165s. per cwt., c.i.f. Jamaican No. 3, spot, 220s.; shipment, 205s., c.i.f. Cochin, shipment, 122s. 6d., c.i.f.; spot, 135s. (per cwt.).

GUM ACACIA.—Kordofan cleaned sorts, 145s. per cwt., spot; new crop, June shipment, 126s., c.i.f.

HENNA.—Indian, spot, 87s. 6d. per cwt.; shipment, 62s. 6d., c.i.f.

HONEY.—Australian light amber, 102s. 6d. to 107s. 6d. per cwt. and medium amber, 96s. to 98s. Argentine, 110s.; Jamaican, 115s. to 120s.; Canadian clover, 145s. to 150s., all ex warehouse.

IPECACUANHA.—For shipment, c.i.f., per lb.—Costa Rican, 68s.; Nicaraguan, 66s.; Matto Grosso, 51s. nominal; Colombian, 49s. 6d. Spot: Matto Grosso, 53s. 6d.; Colombian, 54s.

JUNIPER BERRIES.—Italian, 100s. per cwt.; German, 120s.

KARAYA.—No. 1 gum, spot 325s. per cwt. nominal; No. 2, 225s.

MENTHOL.—Chinese: spot, 82s. per lb., duty paid; shipment, 72s. 6d., c.i.f. Brazilian, 47s. 6d., in bond; shipment, 45s., c.i.f. Formosan, 50s., in bond; shipment, 46s., c.i.f., June-July.

MERCURY.—About £67 per flask of 76-lb.

NUTMEGS.—West Indian 80's 12s. per lb., spot: sound unassorted, 8s. 9d.; defective, 6s. 6d.

NUX VOMICA.—Shipment (per cwt.). Cochin 70s., c.i.f.; Madras, 65s., c.i.f.

ORANGE PEEL.—Spot: Sweet ribbon 1s. 10d. per lb.; bitter quarters: West Indian 11d.; Spanish, 1s. 3d.; bitter ribbon, 1s. 3d.

ORRIS ROOT.—Florentine, 335s. per cwt.

PAPAIN.—Tanganyikan, 14s. 6d. per lb., c.i.f., for grade one; spot 15s. Ceylon brown, 14s. 6d.

PEPPER.—White Sarawak, spot, 4s. 0½d. per lb.; shipment, 3s. 9d., c.i.f. Black Sarawak, spot, 3s. 4½d.; shipment, 3s. 1½d., c.i.f. Black Malabar, 400s. per cwt. spot, and 365s., c.i.f.

PEPPERMINT.—Dutch whole leaves, 3s. per lb., c.i.f.

PIMENTO.—Spot, 560s. cwt.; shipment, 540s., f.o.b.

PODOPHYLLUM.—*Emodi*, 190s. per cwt., spot; shipment not quoted. *Peltatum*, 435s.

PYRETHRUM.—Extract, minimum 25 per cent. w/w pyrethrins, 75s. per lb. for small lots.

QUILLAIA.—Spot and shipment, nominal.

RHUBARB.—Chinese small rounds from 5s. 6d. to 6s. 9d. per lb. on the spot.

SAFFRON.—Mancha selecta, 147s. 6d. per lb.

SARSAPARILLA.—Jamaican native red spot, 2s. 6d. per lb.; shipment, 2s. 2d., c.i.f.

SEEDS.—(Per cwt.). ANISE.—Spanish, 215s., duty paid. CARAWAY.—Dutch easier at 150s., duty paid. CELERY.—Indian, 152s. 6d., spot; new crop for June-July shipment, 137s. 6d., c.i.f., reported paid.

CORIANDER.—Moroccan, 130s., duty paid; new crop for June-July shipment, 93s. 6d., c.i.f. CUMIN.—Indian, 175s.; Iranian, 165s., duty paid. DILL.—Indian, 97s. 6d., spot, with business passing, shipment, 85s., c.i.f. FENNEL.—Chinese, 105s., duty paid; Indian, 100s. FENUGREEK.—Moroccan, 74s. duty paid; new crop, June-July shipment, 54s., c.i.f. MUSTARD.—English, 55s. to 90s., according to quality.

SENEGA.—Spot, 21s. 6d. per lb.

SENNA.—*Tinnevelly* LEAVES, prime No. 1 cleared; f.a.q. No. 3, 9d. PODS: manufacturing (f.a.q.), 9d. and hand-picked, 1s. 5d. to 1s. 10d. *Alexandria* pods: Manufacturing, 1s. 6d.; hand-picked, 4s. 6d. to 5s. 6d.

SHELLAC.—F.O.T.N., 200s. per cwt.; No. 1, 220s.; F.O., 235s. to 285s. spot.

SLIPPERY ELM.—Bark, 3s. 6d. lb. landed value.

SQUILL.—White 75s. per cwt., spot.

STRAMONIUM.—Indian LEAVES 60s. per cwt., spot. Dutch 0·5 per cent. alkaloid 93s., c.i.f.

STYRAX.—Spot, 27s. per lb., shipment, 26s., c.i.f.

TONQUIN BEANS.—Para spot, 6s. 1½d. per lb. Shipment nominal. Angostura 11s.

TURMERIC.—Madras finger on spot 115s. per cwt.; shipment dearer at 105s., c.i.f.

WAXES.—(Per cwt.). BEES.—Dar-es-Salaam, spot, 465s.; shipment, 440s., c.i.f. Abyssinian, spot 390s. in bond; shipment 370s., c.i.f. Sudanese, spot, 410s. nominal; shipment, 360s., c.i.f. CANDELILLA, spot, 465s. CARNAUBA, fatty grey, spot, 445s.; shipment, 432s. 6d., c.i.f.; prime yellow, spot, 700s. quoted; shipment, 645s., c.i.f.

WITCH HAZEL LEAVES.—Spot cleared; origin not offering.

### Essential and Expressed Oils

ALMOND.—Moroccan, 6s. per lb., d paid.

AMBER.—Rectified on the spot, 1s. per lb.

ANISE.—Chinese, 8s. per lb., spot shipment, 7s. 10½d., c.i.f.

BAY.—West Indian short on the sp prices nominal.

BOIS DE ROSE.—Brazilian, 13s. 6d. 1 lb. on the spot and 12s. 6d., c.i.f.

CAJUPUT.—Spot from 10s. per lb.

CALAMUS.—Spot, 56s. 6d. per lb.

CEDARWOOD.—American rectified 8s. 1 lb. on the spot.

CINNAMON.—From quillings, best English-distilled is 50s. per oz.; other B.P. c from 165s. per lb. Ceylon leaf, sp 9s. 6d. per lb.; Seychelles, 8s., spot.

CITRONELLA.—Ceylon, spot, 6s. 6d. shipment, 6s. 2d. per lb., c.i.f. Formosa spot, 6s. 9d., in bond; shipment, 6s. 3 c.i.f.

CLOVE.—Madagascar leaf, spot, 7s. 6 per lb., duty paid; shipment, 6s. 6d., c.i.f. Recified 87-88 per cent., 12s. Distill bud-oil, English, B.P., 28s. for 1-cwt. lo

COD-LIVER.—B.P. is 11s. 6d. per g including charged returnable drums. Veterinary is from 9s. 6d. per gall. Deliver terms, 25-stone lots.

CUMIN.—Imported oil, 90s. per lb English-distilled, 120s.

GINGER.—Imported: Jamaican, 130s. per lb.; Chinese, 72s. 6d., duty paid.

GRAPEFRUIT.—Florida, 18s. per lb.

JUNIPER.—B.P.C. 1949 oil is from 15s. per lb. on the spot. English-distilled 150s. JUNIPER WOOD, from 5s.

LAVANDIN.—Spot from 7s. per lb. f original drums.

LAVENDER.—From 17s. to 50s. per lb as to quality.

LAVENDER SPIKE.—Spanish, 12s. per lb for original drums.

LEMONGRASS.—Spot, 17s. per lb., shipment, 14s. 9d., c.i.f.

NUTMEG.—Imported B.P. oil is from 50 to 90s. per lb. as to source. English distilled, 140s.

OLIVE.—Spot, 19s. 3d. to 20s. 3d. per gall. in drums ex wharf; shipment, £190 £205 per 1,000 kilos, f.o.b. Spanish por

OTTO OF ROSE.—Bulgarian, 400s. per o Turkish, £350 per kilo.

PALMAROSA.—Spot, 37s. 6d. per lb shipment, 36s., c.i.f.

PEPPERMINT.—*Arvensis*: Chinese spot 38s. 6d.; shipment, 35s., c.i.f. Brazilian spot, 16s.; June-July shipment, 15s. 3d c.i.f. *Piperita*: Italian, 48s. per lb., spot American from 30s. to 38s. per lb. as to make.

PETITGRAIN.—Paraguay, 18s. 9d. per lb spot; shipment, 18s., c.i.f.

PIMENTO.—English-distilled berries 167s. 6d. per lb.; imported, 77s. 6d. Rectified leaf, 27s. 6d. per lb. for small lots.

SPEARMINT.—American oil on the spot 40s. per lb.

TANGERINE.—From 19s. to 28s. per lb as to quality.

VETIVERT.—Bourbon spot, 110s. to 112s. 6d per lb.; shipment, 108s., c.i.f.

### UNITED STATES REPORT

NEW YORK, May 29.—Among crude drugs, ASAFOETIDA and Hungaria CHAMOMILE are lower due to sluggish demand and keener desire on the part of dealers to move stock. In essential oils, a little more interest has been turned to LEMONGRASS as a result of a slight decline in shipping prices from India.

## TELEVISION

Figures in the columns represent number of appearances of the product during the week.

	London	Midland	North	Scotland	Wales	South	N.E.	Anglia	Ulster	Westward
June 11-17										
2 Spray	..	—	—	—	—	3	—	—	—	—
creme flask	..	—	—	—	1	—	—	—	—	—
Ika-Seltzer	..	1	2	2	1	1	1	1	1	3
nadin	..	1	6	2	4	4	4	3	5	—
ndrews liver salts	..	1	2	3	3	2	5	4	3	3
nne French	..	1	—	1	1	—	—	1	1	—
skit powders	..	—	—	—	12	—	—	—	—	—
spiro	..	2	4	4	4	4	4	4	4	—
eecham's powders	2	3	—	—	—	3	3	—	—	—
sodol	..	—	—	—	—	—	6	—	—	—
ristow shampoo	2	3	1	2	3	1	1	2	—	3
ylcreem	..	3	3	3	3	3	3	3	3	3
oldrex	..	2	—	2	1	—	1	1	1	—
ooper's aerosols	4	4	4	4	4	4	3	4	3	3
uticura	..	—	2	—	2	—	—	2	—	—
elrosa	..	—	—	2	—	—	—	—	—	—
elsey	..	—	2	1	—	—	3	—	2	—
ispel	..	—	—	—	2	—	—	—	—	—
aramal	..	3	2	2	3	2	2	4	2	2
ilman's	—	—	—	—	—	—	—	—	—	—
foot cream	..	1	—	1	—	—	—	—	—	—
no's fruit salt	..	2	—	2	—	—	—	—	—	—
uthymol	..	—	—	—	—	—	1	—	—	—
eezone	..	—	—	1	—	—	2	—	—	—
ermolene	..	1	—	3	3	3	3	3	3	3
iltone	..	1	—	—	—	—	—	—	—	—
mac	..	1	3	2	1	2	1	1	—	1
perial Leather	—	—	—	—	—	—	—	—	—	—
soap	..	2	3	3	2	2	2	2	3	2
gram shaving	—	—	—	—	—	—	—	—	—	—
cream	..	3	2	2	2	2	2	2	2	3
xene shampoo	2	3	3	3	3	3	3	3	3	3
cleans	—	—	—	—	—	—	—	—	—	—
tooth-paste	..	2	3	3	3	2	3	4	3	3
ilk of Mag-	—	—	—	—	—	—	—	—	—	—
nesia	..	2	—	—	2	1	2	3	1	—
tablets	..	—	3	3	—	—	—	—	3	3
um Rollette	..	1	2	3	—	—	—	—	—	—
yllosan	..	—	1	1	—	1	1	—	1	1
retty Quick	..	—	—	—	4	—	—	—	—	—
ennies	..	—	—	—	—	—	—	—	—	4
instead pastilles	1	1	1	1	1	1	1	1	—	—
chick razors	..	3	—	—	—	—	—	—	—	—
ck	..	—	1	1	—	—	—	—	—	—
ilvirkin pure	..	4	4	—	—	—	—	—	—	—
hair cream	..	1	—	—	—	—	1	—	—	—
shampoo	..	2	3	2	3	1	1	2	—	4
mokies	..	—	—	—	—	—	1	—	1	—
atamina pet foods	4	4	4	4	4	4	4	4	4	4
hermos	..	1	1	1	—	—	—	—	—	—
Vinspray	..	—	2	—	—	—	—	—	—	—

## PRINT AND PUBLICITY

## PUBLICATIONS

## Medical Propaganda

Manufacturers' leaflets, folders, booklets, etc., directed to doctors but available to pharmacists. APLIN & BARRETT, LTD., (Wilts United Dairies, Ltd., Trowbridge, Wilts), Yeovil, Somerset: "Lactobacillus acidophilus . . . as a therapeutic agent" (12-p. booklet).

THE BRITISH DRUG HOUSES, LTD., Graham Street, London, N.1: "Dilosyn . . . a significant new compound" (6-p. folder and information card).

BRITISH SCHERING, LTD., 229 Kensington High Street, London, W.8: "By day . . . 10 per cent. Albucid eyedrops, by night . . . 6 per cent. Albucid eye ointment," "Leviton . . . when tranquillisation alone is not enough," "Safe and effective sedation for children of all ages . . . Oblivon Paediatric Elixir" (information cards).

THE DISTILLERS CO. (BIOCHEMICALS), LTD., Broadway House, The Broadway, London, S.W.19: "Distavone . . . wide spectrum activity for mixed infections" (information card).

GEIGY PHARMACEUTICAL CO., LTD., Wythenshawe, Manchester, 23: "Anturan . . . uricosuric agent," "Hygroton . . . cardiac oedema," "Tofranil . . . thymoleptic" (4-p. folders and envelopes).

MAY & BAKER, LTD., Dagenham, Essex: "Flagyl . . . the effective oral trichomonacide" (4-p. folder); "Gold therapy in rheumatoid arthritis . . . Myocrin" (4-p. folder); "Your next patient may need . . . Largactil" (4-p. folder); "Majepitil . . . neuroleptic" (30-p. booklet); "Nivembin . . . amebiasis" (14-p. booklet); "Protamyl . . . a useful combination for mild mental and emotional disturbances" (blotter).

MERCK SHARP & DOHME, LTD., Hoddesdon, Herts: "Tryptizol . . . for the treatment of depression" (30-p. booklet).

PAINES & BYRNE, LTD., Pabyrn Laboratories, Greenford, Middlesex: Pabracort (information card).

PHARMETHICALS (LONDON), LTD. (Schering, A.G., Berlin, Germany), Victoria Way, Burgess Hill, Sussex: "Leucorrhoea? . . . try Flurymal first" (blotter); "Pregnancy test . . . Primodos" (2-p. leaflet and information card); "Primolut depot . . . for the treatment of abortion, etc." (36-p. booklet); "Metropathia, haemorrhagia . . . Primolut N" (4-p. folder); "Scheriproct . . . haemorrhoids" (information card and blotter).

ROCHE PRODUCTS, LTD., 15 Manchester Square, London, W.1: "Dysentery . . . Madribon" (8-p. booklet); "Acne . . . Ro-a-vit, Rovigon" (16-p. booklet); "Roche psychotropic drugs . . .

Librium, Taractan, Marplan, Nitoman" (12-p. booklet).

VITAMINS, LTD., 16 Upper Mall, London, W.6: "Juvel . . . vitamin supplementation," "Infective conditions in children . . . Vitavel syrup" (4-p. folders); "Restoration after confusion . . . Parentrivite" (6-p. folder).

## PRESS ADVERTISING

GOLDEN, LTD., 7 Grosvenor Street, London, W.1: Ambre Solaire, in *Daily Express*, *Daily Mail*, *Daily Telegraph*, *Sunday Times*; Color-Match. In *Woman*, *Woman's Own*, *Everywoman*, *Woman and Beauty*, *Modern Woman*, *Sunday Express*.

KIMBERLY CLARK, LTD., Larkfield, Maidstone, Kent: Kleenex, Kleenex for Men, Handy Pack. In *The Baby Book*, *The Newbourne Baby Book*, *You and Your Baby*.

## COMING EVENTS

Items for inclusion under this heading should be sent in time to reach the Editor not later than first post on Wednesday of the week of insertion.

## Wednesday, June 7

BIRMINGHAM CHAMBER OF COMMERCE AND THE BRITISH INSTITUTE OF MANAGEMENT, large lecture theatre, Department of Mechanical Engineering, Birmingham University, Edgbaston, at 2.30 p.m. Public debate, "Should Resale Price Maintenance be Abolished." Speakers, Messrs. R. Harris (Fellow of the British Institute of Management) and F. A. Friday (economic adviser, Resale Price Maintenance Co-ordinating Committee).

MEDWAY BRANCH, PHARMACEUTICAL SOCIETY, at 3 p.m. Visit to the Metal Box Co., Ltd., Strood, Kent.

NATIONAL PHARMACEUTICAL UNION, Conway Hall, Red Lion Square, London, W.C.1, at 2 p.m. Conference of Pharmaceutical Committee representatives.

WEST HERTFORDSHIRE BRANCH, PHARMACEUTICAL SOCIETY, Red Lion hotel, Water End, Hemel Hempstead, Herts, at 7.30 p.m. Car rally.

## Thursday, June 8

EAST METROPOLITAN BRANCH, PHARMACEUTICAL SOCIETY, Mornington Hall, The Green, North Chingford, London, E.4, at 6 p.m. Summer meeting. Address by Mr. F. Miller.

## Friday, June 9

BIOLOGICAL METHODS GROUP, SOCIETY FOR ANALYTICAL CHEMISTRY, at 10 a.m. Visit to Boots Pure Drug Co., Ltd. Nottingham.

## Advance Information

INTERNATIONAL PLASTICS EXHIBITION AND CONVENTION, Olympia, London, W.14. June 21 to July 1.



CURRENT SHOW MATTER: To design a showcard to hold their men's "Travelette" kit (see C. & D., May 20, p. 514), J. & E. Atkinson, Ltd., made use of W. S. Crawford, Ltd., London, as designers, and Albert E. Kempston, Ltd., Leicester, as printers. For Punch and Judy fruit-flavoured tooth-pastes for children, Gordon-Moore, Ltd., St. Swithins, Norwich, Norfolk, have commissioned an animated display, which was designed and produced by Leon Goodman Displays, Ltd., London, using an Animotor battery. A new general showcard produced for their range of infant foods by Trufoods, Ltd., 113 Newington Causeway, London, S.E.1, is particularly suitable for tying in with National Baby Week (June 3-11) as it features a full colour head of a baby with the company's name plate as the only copy. The card measures 11 1/2 x 7 1/2 in. and will stand or hang. To help chemists who wish to link up with National Baby Week manufacturers are making available a special parcel of display material and sampling cards. The Minadex showcard at right (code No. HD 179) is available on request from Glaxo Laboratories, Ltd., Greenford, Middlesex.

## PATENTS

### COMPLETE SPECIFICATIONS ACCEPTED

From the "Official Journal (Patents)," May 25  
 Fungicidal and/or fungistatic compositions. T. J. Smith & Nephew, Ltd. 872,891,92,93.  
 Blood coagulation components and method of concentrating and purifying. Cutter Laboratories. 872,536.  
 Derivatives of cyclopropane. Wellcome Foundation, Ltd. 872,943.  
 Fermentative production of the antibiotics distamycin and distacyne. Soc. Farmaceutici Italia. 872,734.  
 Steroids and the manufacture thereof. Upjohn Co. 872,483-84.  
 Preparation of rubidium compounds. Pfizer, Ltd. 872,509.  
 Cation-permselective membranes. National Research Development Corp. 872,844.  
 Process for the preparation of substituted sulphonyl ureas. Chinoim Gyogyszer es Vegyeszeti Termekek Gyara. 872,567.  
 Inorganic phosphorous compounds. Imperial Chemical Industries, Ltd. 872,832.  
 N-substituted trihaloacetylpirazoles. American Cyanamid Co. 872,436.  
 Process for the production of peptides. Farbenfabriken Bayer, A.G. 872,414.  
 Steroids and the manufacture thereof. Upjohn Co. 872,806.  
 Preparation of malonic acid salts. Ethyl Corporation. 872,758.  
 Herbicidal preparation. Farbwerke Hoechst, A.G. 872,926.  
 Phosphorus esters. Soc. des Usines Chimiques Rhône-Poulenc. 872,823.  
 Disinfectant compositions. William Pearson, Ltd. 872,900.  
 Process for the production of derivatives of n-fluorosulphonyl carbamic acid. Farbenfabriken Bayer, A.G. 872,670.  
 Herbicidal compositions. E.I. Du Pont De Nemours & Co. 872,808.  
 Tooth-brush appliances. Daily Use, Ltd. 872,511.  
 Injector-aspirator for treating dental cavities. Piorvit S.r.l. 872,667.  
 Sterilisable focusing means for surgical lights. Ritter Co., Inc. 872,586.  
 Composition for use in the dyeing of human hair with oxidation dyestuffs. Wella, A.G. 872,585.  
 British patent specifications are obtainable (price 3s. 6d. each) from the Patent Office, 23 Southampton Buildings, Chancery Lane, London, W.C.2.

## TRADE MARKS

### APPLICATIONS ADVERTISED BEFORE REGISTRATION

From the "Trade Marks Journal," May 17  
 For soaps; and detergents (not for use in industrial and manufacturing processes) (3)  
 LASTICLITE, 815,984, by American Home Products Corporation, New York, U.S.A.  
 From the "Trade Marks Journal," May 24  
 For perfumes, cosmetics, non-medicated toilet preparations, soap, dentifrices, and preparations for the hair (3)  
 CLAYMORE, 807,824, by Bourjois, Ltd., Croydon, Surrey.  
 For soaps, detergents (not for use in industrial processes), preparations and substances for laundry use; cleaning, polishing, scouring and abrasive preparations; but not including starch (3)  
 ADI, 810,749, ADDI, B810,750, by William Gossage & Sons, Ltd., Warrington, Lancs.  
 For all goods (3)  
 OLIVIT, 812,377, by C. H. Boehringer Sohn, Ingelheim-on-Rhine, 22B, Germany. KILDUFF, ENDUFF, 816,750-51, by William Urquhart-Dykes, London, W.C.2.  
 For perfumes, non-medicated bath preparations and cosmetic preparations (not being toilet preparations) (3)  
 SWANDOWN PLEASURE, 813,143, by Henry Tetlow Co., Ltd., London, W.10.  
 For non-medicated toilet preparations, soaps, perfumes, cosmetics, essential oils, dentifrices and hair lotions (3)  
 SWANDOWN TREASURE, 814,058, by Henry Tetlow Co., Ltd., London, W.10.  
 For perfumes, cosmetics, non-medicated toilet preparations, soaps and preparations for the teeth and hair (3)  
 CARESS, 814,564, by Bourjois, Ltd., Croydon, Surrey.

For perfumes, toilet preparations, cosmetic preparations, dentifrices, depilatory preparations and toilet articles (not included in other classes) (3)

PRESIDENT, 814,610, by County Laboratories, Ltd., Brentford, Middlesex.  
 For toilet preparations for the hair (3)  
 CUSSONS HAIRCARE, 815,541, by Cussons Sons & Co., Ltd., Kersal, Manchester, 7.  
 For perfumes, non-medicated toilet preparations, cosmetic preparations and perfumed soap, all being for sale in the United Kingdom and for export to the Republic of Ireland (3)  
 BLACK OPAL BY RIMMEL, 816,252, by Rimmel Proprietaries, Ltd., London, W.1.  
 For pharmaceutical preparations for use in the treatment of arteriosclerosis and varicose veins (5)  
 SCLERAX, 798,144, by Roche Products, Ltd., Welwyn Garden City, Herts.  
 For liniments for human use (5)  
 HER-BU-LINE, B802,690, by Herbuline Manufacturing Co., Inverness, Scotland.  
 For diuretic preparations (5)  
 BENCLEX, 802,776, by Glaxo Laboratories, Ltd., Greenford, Middlesex.  
 For pharmaceutical, veterinary and sanitary substances; preparations for killing weeds and destroying vermin; bactericides, insecticides, fungicides, pesticides, disinfectants, germicides; and antiseptics (5)  
 GERMOTOL, 803,810, by Bushman & Kaydot, Ltd., Colnbrook, Bucks.  
 For veterinary preparations (5)  
 INFORT, 807,093, by Crown Chemical Co., Ltd., Lamberhurst, Kent.  
 For all goods (5)  
 RADANIL, 807,209, by Roche Products, Ltd., Welwyn Garden City, Herts. CALMEDINE, 810,613, by Scai Société Commerciale d'Applications Industrielles, Glarus, Switzerland. KEFALIN, 812,139, by Distillers Co. (Biochemicals), Ltd., Speke, Liverpool, 24. KOPLIVAX, 814,427, by Wellcome Foundation, Ltd., London, N.W.1. CERNILTON, 815,793, by A.B. Cernelle, Växjö, Sweden. HYCOTAN, 816,563, by Duncan, Flockhart & Co., Ltd., Edinburgh, 11. COLPHEN, 817,766, by Riker Laboratories, Ltd., Loughborough, Leics.  
 For preparations for killing weeds and destroying vermin; insecticides; all being goods for sale in England, Scotland and Wales (5)  
 FISONS SLAY, 808,577, by Fisons, Ltd., Felixstowe, Suffolk.  
 For pharmaceutical preparations and medical diagnostic reagents for use in detecting and controlling the presence of sugars (5)  
 GLUCOTROL, 808,812, by Wellcome Foundation, Ltd., London, N.W.1.  
 For pharmaceutical preparations for use in the treatment of influenza (5)  
 THERAFLU, 809,011, by Sandoz Products, Ltd., Bradford, Yorks.  
 For preparations for fumigating air; preparations in spray form for killing flies; and moth-repelling preparations (5)  
 VETO, 809,446, by Brobat Manufacturing Co., Ltd., London, S.W.19.  
 For preparations for killing weeds and destroying vermin; insecticides (5)  
 BALTEX, 809,699, by Farbenfabriken Bayer, A.G., Leverkusen, 22C, Germany.  
 For pharmaceutical preparations and substances, all for use in the treatment of the liver or of ailments of the liver (5)  
 HEPATOKINEX, 810,652, by Laboratoires Badrial, Paris, IXe, France.  
 For pharmaceutical preparations for the treatment of dysmenorrhoea (5)  
 DYSMENS, 810,690, by Winthrop Group, Ltd., Surbiton, Surrey.  
 For preparations for use in the treatment of skin diseases (5)  
 LITHRADERM, 810,970, by Desitin-Werk Carl Klinke, G.m.b.H., Hamburg-Othmarschen, Germany.  
 For pharmaceutical preparations in liquid form being multi-vitamin preparations (5)  
 VILIQUID, 810,972, by Desitin-Werk Carl Klinke, G.m.b.H., Hamburg-Othmarschen, Germany.  
 For pharmaceutical preparations and substances (5)  
 DRAZINE, 811,965, by T. J. Smith & Nephew, Ltd., Hull, Yorks. STENOROL, 815,884, by Les Laboratoires Français de Chimiothérapie, S.A., Paris 7e, France. KILDUFF, ENDUFF, 816,752-53, by William Urquhart-Dykes, London, W.C.2.  
 For all goods for use in photography (1)  
 MICROTEX, 817,535, by Kodak, Ltd., London, W.C.2.  
 For pharmaceutical preparations and substances all for use in treating cardiac complaints (5)  
 CARDIORYTHMINE, 813,890, by Biofarm S.A., Neuilly-sur-Seine, France.  
 For pharmaceutical preparations and dietetic preparations, all for use in slimming (5)  
 SLIMCAL, 814,005, by A. Wander, Ltd., London, W.1.  
 For pharmaceutical preparations containing compounds and tranquillising agents (5)  
 AMYLOZINE, 814,478, by Smith Kline French Laboratories, Ltd., Welwyn Garden City, Herts.  
 For preparations for use as nutritional additive to poultry and animal foodstuffs (5)  
 SOLUFERM, 815,149, by Commercial Solv Corporation, New York, U.S.A.  
 For all goods in tablet form (5)  
 TABPEN, 815,628, by Distillers Co. (Biochemicals), Ltd., Speke, Liverpool, 24.  
 For eye shades (9)  
 TWINKERS, 810,436, by Gold Products, Ltd., London, W.2.  
 For cases adapted for holding and soaking contact lenses (9)  
 HYDRA-KIT, 812,081, by T. J. Smith & Nephew, Ltd., Hull, Yorks.  
 For photographic and cinematographic apparatus and instruments, and parts; photographic developing machines for roll-films (9)  
 LABOMATOR, 815,850, by Agfa, A.G., Leverkusen, Bayerwerk, Germany.  
 For pads and blankets all being electrically-heated (10)  
 SIESTA, B787,853, by Thermoelectrics, Ltd., Hampton, Middlesex.  
 For surgical, medical, dental and veterinary instruments and apparatus, artificial limbs, eyes and teeth; and feeding bottles (10)  
 Device, 810,819, by Littlewoods Mail Order Stores, Ltd., Liverpool, 1.  
 For hold-alls made of plastics for toilet articles (18)  
 CORONET, 810,340, by Boots Pure Drug Co. Ltd., Nottingham.

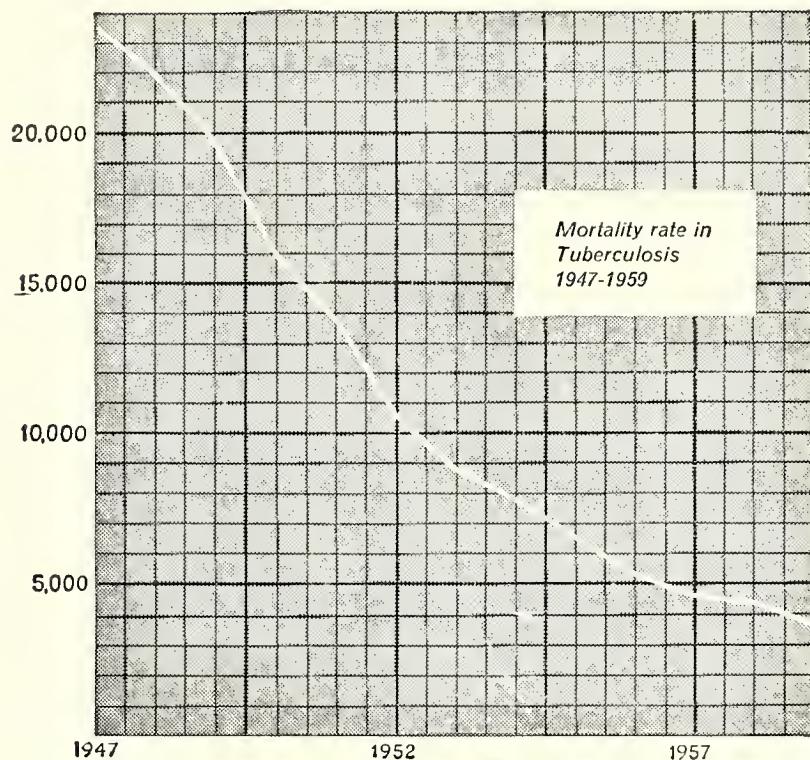
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## CONTEMPORARY THEMES

Subjects of contributions in current medical and technical periodicals.

ATTENUATED POLIOVIRUS VACCINE. Measurement of the protective effect of. *Brit. med. J.* May 20.  
 SURFACE DISINFECTION of poultry buildings by formaldehyde and sulphur dioxide. *Vet. Rec.* May 27.  
 TOXIC PRINCIPLE in *Acacia georginæ*, isolation of the. *Nature*, May 27.  
 β-AMINOISOBUTYRIC acid. Origin of in *iris*. *Nature*, May 27.  
 ABSORBENTS. Controlled use of, in enzyme purification. *Nature*, May 27.  
 HYOSCYAMINE. Cholinergic activity of. *Nature*, May 27.  
 SAROMYCIN. Anti-tumour action of new derivatives. *Nature*, May 27.  
 GRAPE-FRUIT PEEL TINCTURE and GRAPE-FRUIT SYRUP. The preparation and evaluation of. *Amer. J. Pharm.*, February 1961.  
 GUM ARABIC. The market for. *Tropical Science* 1961.  
 SASSAFRAS LAURELS. The essential oils of the. *Essen. Oil Rec.*, May 1961.  
 URINARY PROTEIN. Measurement of. *Lancet*, May 27.  
 Tolbutamide in cirrhosis of the liver. *Lancet* May 27.  
 FREEZE-DRIED B.C.G. VACCINE from isoniazid-resistant strain. *Brit. med. J.*, May 27.  
 POTASSIUM SUPPLEMENT. Importance of, during the use of spironolactone and thiazide diuretics. *Brit. med. J.*, May 27.  
 CHEMICAL CONSTITUTION and immunological specificity. *Proc. chem. Soc.*, May.  
 COMMERCIAL CONTRACEPTIVES. *In-vitro* assessment of. *J. Amer. med. Ass.*, May 6.  
 PATENTS and inventive effort. *Science*, May 12.  
 PURIFICATION of antibody to galactosyl-protein conjugates. *Science*, May 12.



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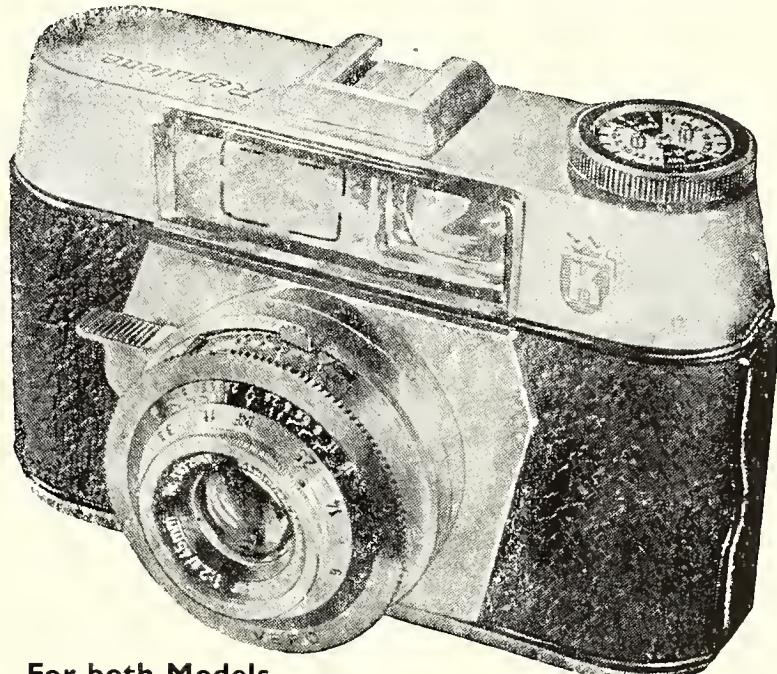
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Hosiery  
customers

# TO SHOW THEM IS TO SELL THEM

**RETAIL** **TRADE**  
**36/- PAIR** **24/- PAIR**

In three standard foot sizes as  
below:

**SIZE 1**  
**8 $\frac{1}{2}$ —9**

SIZE 2  
 $9\frac{1}{2}$ —10

SIZE 3  
10  $\frac{1}{2}$  - 11

THE SCHOLL MFG. CO. LTD.  
182-204 ST. JOHN STREET,  
LONDON, E.C.I  
CLERKENWELL 3636

# WHAT EVERY WOMAN WANTS for relief of tired aching legs

**SHEER SUPPORT** *Nylons*



# *Vitality*

What a tonic for your legs... the new *Vitality* stockings! These are the wonderful stockings that keep your legs free from tiredness. All nylon sheerness and beauty. Almost unbelievable until you wear them.

Feel their caressing support.  
Enjoy their light, cool, comfort  
every hour of every busy day.

This is the promise Vitality gives you. Buy them today. Wear them tomorrow. You will never believe your fatigue-free legs could feel so youthful yet look so elegant. (So economical, too, for Vitality will far outlast ordinary nylons).

**They feel like magic  
but their name is . . .**

36'-  
PAIR



SUPPORT NYLONS by **Scholl**

# Vitality

**CUMULATIVE LIST OF AMENDMENTS TO THE C.&D.**  
**Quarterly Price List**

JUNE 1

<b>Delete</b>	<b>Alficetyl</b> (34 A&H)	cream ..	1 oz								
	for eye drops ..			42	0		5	3	TS		
<b>Delete</b>	<b>Allenbury's</b> (34 A&H)	diet ..	1 lb								
	<b>All Out</b> (931 PDC)	tube dispenser ..					6				
	<b>Astral</b> (509 Gibbs)	cream ..									
		9	9	4	9	1	6				
		16	0	7	9	2	6				
		28	6	13	10	4	6				
		soap toilet ..		9	0	2	2	1	1		
		bath ..		13	0	3	2	1	7		
	<b>Benefit</b> (588 H&H) tonic			28	6	7	0	3	9		
	<b>Bilora</b> (8 Actina) cancras										
	Bella super 44 and 46										
	66 ..										
	<b>Bitevan</b> (436 Evans)										
	ampoules 50 mgm 10 mils			30	0	..	3	4			
	100 mgm 1 mil 6			30	0	..	3	4			
	10 mils			34	6	..	3	10			
	1000 mgm 1 mil 3			48	0	..	5	4			
	10 mils			144	0	..	16	0			
	<b>Carbomucil</b> (896 NPP) .. 4 oz			36	0	9	0	4	9		
<b>Delete</b>	<b>Cortelan</b> (518 Glaxo)	eye ointment ..	3 gm								
	<b>Dalzoband</b> (347 Dalmas)	zinc paste bandage									
	3½ x 6 yd. No. 2, 2X,										
	3, 4, 5, 6, 6X ..			28	6	..	3	4			
	No. 20 ..			29	6	..	3	6			
	<b>Decadron</b> (837 MSD)	injection vial 2 mils ..		21	0ea	..	31	6	TS		
	<b>Decaspray</b> (837 MSD) 50 mgm			15	0ea	..	22	6	TS		
	<b>Diabubes</b> (588 H & H) .. C1			14	0	..	1	7			
	<b>Dindevan</b> (436 Evans)	tablets 10 mgm ..									
		100	120	0	..		15	0			
		500	468	0	..		58	6			
		50 mgm ..	25	66	0	..	8	3			
		100	216	0	..		27	0			
		1000	1404	0	..		175	6			
	<b>Distaval</b> (378 DCBL)	suspension 60 mils ..		3	0ea	..	4	6	pls4B		
	<b>Dor</b> (563 Hampshire)	aerosol ..		375	0	185	0	5	0		
		gross				gross					
<b>Delete</b>	<b>Eucortone</b> (34 A&H)	10 mils									
	<b>Eucryl</b> (430 Eucryl)	tooth powder smokers		14	8	3	8	2	0		
<b>Delete</b>	<b>Fields</b> (462 Field)	solid brilliantine									
	<b>Framygen</b> (502 Genatosan)	sterile powder 500 mgm		17	0ea	..	25	6	TS		
		tablets 500 mgm ..	20	75	0ea	..	112	6	TS		
		100	290	0ea	..		435	0	TS		
	<b>Gala</b> (876 MP)	natural bloom ..		33	0	16	6	5	6		
		shadow stick refill ..		27	0	13	6	4	6		
		velvet powder refill ..		27	0	13	6	4	6		
	<b>Gordon Moore</b> (528 GM)	cosmetic toothpaste small		14	5	3	7	1	11		
	<b>Heath &amp; Heather</b> (588 H&H)	cigarettes herbal arabian	10	9	6	2	6	1	3		
		20	16	6	4	0	2	2			
		50	33	6	8	6	4	5			
		100	62	0	15	6	8	3			
		smoking mixture herbal									
		plain ..	..	64	11	0	..	1	3		
		Vi-tablets ..	..		21	0	5	0	3	0	
	<b>Heatherclean</b> (588 H&H)				38	6	9	6	5	7	
					8	0	2	0	1	3	
				19	0	5	0	2	10		
	<b>Herbolic</b> (588 H&H)	disinfectant ..		17	0	4	0	2	3		
	<b>Hexopal</b> (97 Bayer)										
		tablets 500 mgm ..	100	41	4ea	..	62	0			
<b>Delete</b>	<b>Insulin</b> A.B. (34 A&H)	20 units ..	5 cc								
<b>Delete</b>	<b>Johnsons</b> (673 J of H)	desensitizer yellow									
	<b>Kaloids</b> (680 Kalium)	tablets ..	30	16	0	..	2	0			
<b>Delete</b>	<b>Keg</b> (462 Field)	hair cream									
	<b>Leichner</b> (749 Leichner)	"kamera klear" base 352		14	6	7	3	2	5		

<b>Less</b> (528 GM) toothpaste	14	5	3	7	1	11
<b>Librium</b> (1074 Roche)						
tablets 5 mgm ..	25	54	0	..	6	9
	100	192	0	..	24	0
	500	65	0ea	..	97	6
10 mgm ..	25	68	0	..	8	6
	100	240	0	..	30	0
	500	82	0ea	..	123	0

<b>Marevan</b> (436 Evans)						
tablets 1 mgm ..	100	96	0	..	12	0
10 mgm ..	100	288	0	..	36	0

<b>Margo's</b> (798 Margolhs)						
bath cubes floral ..		17	0	8	6	3
gross			gross			

<b>Max</b> (855 Mondart)						
insect repellant ..		30	0	7	4	3
<b>Medic</b> (942 Passmill)						

<b>Melleril</b> (1098 Sandoz)						
syrup ..		100	54	0	..	6
1 litre		444	0	..		55

<b>Miners</b> (876 MP)						
hair lacquer aerosol ..		39	0	19	6	6
<b>Mus-Gar</b> (588 H&H) ointment		16	6	4	0	2

<b>Nicolane</b> (70 Aspro) linctus	14	5	3	7	1	11
<b>Odol</b> (314 Cranbux) toothpaste						
<b>Orapen V-K</b> (650 IRL)						

tablets 125 mgm ..	50	19	6ea	..	26	0
	100	35	0ea	..	46	8
	250	89	9ea	..	119	8

500	171	0ea	..	228	0	TS
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<b>Parke-Davis</b> (938 PD)						
shaving cream tube 1½ oz						

**THIS WEEK'S CHANGES**

**AT END OF LIST**

<b>Pen</b> (267 C&A)						
acrilavine and Clearsight	10	0	..	2	6	1
iodine and mosquito ..	10	0	..	2	6	1
<b>Penicillin</b> (34 A&H)						
ointment ..	2 oz	18	0	..	2	3
<b>Delete</b>	<b>eye ointment strong</b>					
<b>Delete</b>	<b>solution tablets buffered</b>					
<b>Petron</b> (1201 Supervite)						
universal atomizer ..		23	6	11	9	3
<b>Delete</b>	<b>Phenaglate</b> (70 Aspro) capsules					
<b>Plastabook</b> (1247 TDC)						
first aid dressings 2½ doz		38	4	..		1
<b>P.L.J.</b> (103 BF) large ..		44	5	..		4
<b>Ponds</b> (256 CPL)						
cold cream ..		11	0	5	6	1
face powder ..		11	0	5	6	1
freshener pads ..		11	0	5	6	1
vanishing cream ..		11	0	5	6	1
lipsticks medium swivel ..						
large refills ..						
<b>Punch and Judy</b> (528 GM)						
toothpaste ..		14	5	3	7	1
<b>Rentokil</b> (1047 Rentokil)						
aerosol ..		6 oz	..	..	5	

<b>SteriShave</b> (438 ER)	..					
razor bath	..	22	0	5	6	3 4
refills	..	18	0	4	6	2 8
<b>Strepolin</b> (518 Glaxo)						
cartridges 1½ mils	.. 10	12	6ea	..	18 9	TS
vials 3 mils	.. 10	12	6ea	..	18 9	TS
<b>Swandown</b> (1218 HT)						
"Final Touch" deodorant	14 0	7	0	2	3	
<b>Toni</b> (1242 Toni)						
brush rollers	..	21 3	5 3½	6		
		6 doz	6 doz			
<b>Travia</b> (761 Lilia-White)						
compressed sanitary towels	.. 3	8 4	..	..	10 ½	
<b>Trescatyl</b> (971 PSMB)						
powder 2 gm	..	70 0	..	..	8 9	
tablets 250 mgm	.. 50	36 8ea	..	55 0		
	250	178 4ea	..	267 6		
<b>Vacco</b> (1265 Vacco)						
vacuum flask-de-luxe VLP	73 6	9 0	..	8 11		
<b>Vaseline</b> (256 CPL)						
petroleum jelly						
yellow	.. 1 lb	41 4	10 4	5 6		
	7 lb	165 0	..	..		
white	.. 1 lb	50 8	12 8	6 9		
	7 lb	210 0	..	..		
<b>Vosol</b> (369 DL)						
ear drops 15 mils	..	67 0	17 0	9 10		
<b>Wata</b> (980 Photopia)						
optical viewfinder	.. W39	20 10ea	5 0ea	36 3		
<b>Watameter</b> (980 Photopia)						
11 rangefinder	.. W2	39 10ea	9 9ea	69 6		
super	.. W3	64 0ea	10 6ea	74 6		
<b>Whip</b> (933 PLG)						
after shave lotion	..	6 10ea	3 5ea	14 3		
	18 0ea	9 0ea	39 8			
<b>Wright-Fleming</b> (1393 BRL)						
antigens						
diphtheria-pertussis prophylactic	3 × ½ mil	4 3ea	..	..		
	5 mils	7 6ea	..	..		
diphtheria-tetanus prophylactic						
	3 × ½ mil	1 10½ea	..	..		
	5 mils	3 4½ea	..	..		
pertussis	..	7 10½ea	..	..		
	1 mil	1 10½ea	..	..		
	3 × ½ mil	4 3ea	..	..		
	5 mils	7 6ea	..	..		
tetanus toxoid	2 × ½ mil	3 9ea	..	..		
	5 mils	7 1½ea	..	..		
<b>Wright's</b> (1351 WLU)						
lysol BP	.. 4 oz	9 9	..	1 4 p2		
	8 oz					

### AMENDMENTS TO KEY TO SUPPLIERS:

(193 Brobat)=BROBAT, LTD., 52 Wandle Bank, London, S.W.19. Liberty 8131.  
 (514 Gillette)=GILLETTE SAFETY RAZOR CO. (DIVISION OF GILLETTE INDUSTRIES LTD.), Great West Road, Isleworth, Middlesex. Isleworth 1234.  
 (931 PDC)=PAND DISTRIBUTORS CO., LTD., P.O. Box No. 1, Oxted, Surrey.  
 (1411 Stephens)=HENRY C. STEPHENS, LTD., Gillespie Road, London, N.5. Canonbury 4455.

### THIS WEEK'S CHANGES

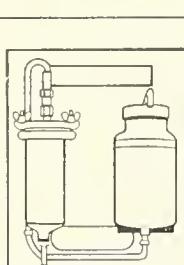
NEW and altered entries notified for the first time.

A=Advanced. R=Reduced.

Entries new this week are marked thus:—●

● <b>No. 5</b> (247 Chanel)	parfum de toilette					
● atomizer	.. ..	..	..	..	45 0	
● refill	.. ..	..	..	..	27 6	
<b>Delete</b> spray Cologne	.. 300	..	..	..		
<b>Anita</b> (473 FJ)						
A coconut-oil shampoo	.. 13 8	3	5	2 0		
● colourised hair lacquer	27 0	13	6	4 6		
● refill	.. 18 0	9	0	3 0		
A crystal clear setting lotion	.. ..	12 0	6 0	2 0		
<b>R Antidol</b> (757 Lewis)						
tablets	.. .. 20	25 0	..	.. 3 1½		
	100	108 0	..	.. 13 6		
	500	520 0	..	.. 65 0		
<b>Astral</b> (509 Gibbs)						
cream	.. ..	9 9	4 9	1 6		
		16 0	7 9½	2 6		
		28 6	13 10½	4 6		
● soap toilet bath	.. ..	9 0	2 2½	1 1	7	
	13 0	3 2				

<b>Corr.</b>	<b>Basque</b> (682 KCL)	continental suntan oil	33 0	16 1	5 6	
			53 0	25 10	8 9	
A	<b>Beaucaire</b> (100 Beaucaire)	cleaning fluid	.. 1 gall	360 0	..	39 0
●	<b>Bell's</b> (107 BH&L)	foot bath powder	..	5 2	1 3½	9
●	<b>Bromural</b> (708 Knoll)	sunburn milk	.. 4 oz	21 0	10 6	4 0
R		tablets	.. ..	20	29 0	..
				200	11 6ea	..
			..	16	1	4 0
<b>Corr.</b>	<b>Celabs</b> (727 Lane)	..	36	..		
<b>Delete</b>	<b>Chantilly</b> (Houbigant (1 Abbey)	perfume	105 38			
<b>Delete</b>			105 91			
●		talcum tin	.. 149 18			
<b>Corr.</b>	<b>Charabs</b> (727 Lane)	..	36	16 1	4 0	7 6
	<b>Cooltan</b> (682 KCL)	polythene "travler bottle"	30 3	14 7½	5 0	
●	<b>Dorant</b> (718 LAB)	mouth wash	.. 2 oz	24 0	6 0	3 6
A	<b>Drummer</b> (406 WE)	firelighters	.. ..	183 0	..	1 9
			gross			
<b>Delete</b>	<b>Flatterie</b> (Houbigant (1 Abbey)	perfume	106 81	..	..	31 6
			106 91			
A	<b>Fumee</b> (Lubin (1 Abbey)	Cologne concentree	.. 319	..	..	16 6
A			320	..	..	30 0
A		perfume	.. 3260	..	..	52 6
A			2361	..	..	85 0
A			3262	..	..	135 0
A	<b>Galloways</b> (430 Eucryl)	cough syrup	.. ..	14 8	3 8	2 0
			24 0	6 0	3 3	
			40 0	10 0	5 6	
<b>Corr.</b>	<b>Gin Fizz</b> (Lubin (1 Abbey)	perfume	.. 649	..	..	35 0
A			650	..	..	52 6
A			651	..	..	85 0
A			652	..	..	135 0
●			621	..	..	294 0
A	<b>GP</b> (1073 Robinson)	soap (3)	.. 616	..	..	15 0
A		talcum bottle	.. 836	..	..	10 6
●		tin	.. 836T	..	..	7 6
<b>R</b>	<b>Halex</b> (560 Halex)	chamber	.. F501	55 6	..	6 11
<b>R</b>			F502	44 0	..	5 6
<b>R</b>			F512	28 0	..	3 6
●	<b>Hep</b> (107 BH&L)	tonic	.. .. 4 oz	16 4	1 2 8	
			8 oz	31 0	7 9	4 10
<b>Kodak</b> (711 Kodak)						
●	Brownie 44B camera	..	52 0ea	13 0ea	93 0	
●	case	..	8 sea	2 2ea	15 6	
●	Kodaslide 50 projector	..	209 7½ea	..	322 6	
●	projection lamp 300w..	..	23 1ea	..	33 0	
●	Kodachrome II double 8mm movie film 25 ft. spool	..	18 8ea	2 11ea	29 7	
A		Tri-X and Plus-X 50 ft. spool	..	25 9ea	3 11ea	38 3
		50 ft. magazine	.. 31 10½ea	5 4ea	47 10	
A		100 ft. spool	.. 43 4½ea	6 6ea	64 4	
A	Kodachrome 50 ft. spool	..	30 0ea	5 0ea	45 0	
A	50 ft. magazine	..	36 0ea	6 5ea	54 5	
A		100 ft. spool	.. 51 3ea	8 6ea	76 10	
A	Kodisk filters	.. .. 255	7 0ea	1 9ea	12 3	
		285	7 0ea	1 9ea	12 3	
		320	7 0ea	1 11ea	13 5	
A		370	9 0ea	2 3ea	15 9	
A	close-up lens	.. 255	5 2ea	1 4ea	9 1	
A	lens hoods	.. 255	3 2ea	11ea	6 5	
		285	3 2ea	11ea	6 5	
		320	4 2ea	1 2ea	8 2	
<b>Corr.</b>	<b>Lusty's</b> (781 Lusty's)	digestive tablets	.. 150	33 0	7 10	4 9
		nerve tablets	.. 150	33 0	7 10	4 9
		seaweed bath bags	.. 5	24 0	5 8	3 6
		and sarsaparilla tablets	.. 150	33 0	7 10	4 9
		sleep inducing tablets	.. 150	33 0	7 10	4 9
		special herbal tablets..	.. 150	33 0	7 10	4 9
<b>Miners</b> (876 MP)		hair lacquer aerosol	.. 39 0	19 6	6 6	
●	<b>Nuit de Longchamp</b> (Lubin (1 Abbey)	Cologne concentree	.. 289	..	..	16 6
A			290	..	..	30 0
A			292	..	..	75 0
<b>Delete</b>			297	..	..	
A	perfume	.. .. 2949	..	..	..	35 0
		2950	..	..	..	52 6
A		2951	..	..	..	85 0



FOR PURIFIED WATER B.P. FROM TAP — INSTANTLY AT NEGLIGIBLE COST

Please write for leaflet C.D. 110 giving effluent cost for your own area

DEIONISATION (ELGA) LIMITED, LANE END, BUCKINGHAMSHIRE



<i>A</i>		2952	..	..	..	135	0		
<i>A</i>		2954	..	..	..	300	0		
<i>A</i>		2921	..	..	..	294	0		
<i>● Delete</i>		2948	..	..	..				
<i>A</i>	soap (3)	..	2916	..	..	15	0		
<i>●</i>	talcum tin	..	..	831T	..	7	6		
<i>A</i>	bottle	..	..	830	..	10	6		
<b>● One Two</b> (621 Horlicks)									
	spot lifter spray	..	2 oz	31	6	..	3	6	
<b>● Ornimed</b> (718 LAB)									
	bird seeds								
	with chloramphenicol	36	0	..	..	4	0		
	with penicillin	36	0	..	..	4	0		
	with sulphonamide	36	0	..	..	4	0		
	with vit. B12	45	0	..	..	5	0		
<b>● Polkris</b> (839 MGS)									
	electric feeding bottle	20	0	ea	5	0	ea	35	0
<i>● Delete</i>	<b>Quelques Fleurs</b> (Houbigant ( 1 Abbey)								
	perfume	..	104-91	..	..	..			
<i>A</i>	soap (3)	..	142-25	..	..	..	15	0	
<i>R</i>	talcum tin	..	149-17	..	..	..	7	6	
<i>● Delete</i>	Sea and travel-sickness remedy (107 BH&L)								
<b>● Solcoseryl</b> (499 Richter)									
	ampoules 2 mils	..	6	27	8ea	6	11ea	48	5
	ointment	..	20 gm	3	8ea	11ea	6	5	
<i>A</i>	<b>Son Fils et Lui</b> (Lubin ( 1 Abbey)								
	after shave	..	100	..	..	..	30	0	
	mens Cologne	..	..	700	..	..	37	6	
<i>R</i>	<b>Soventol</b> (708 Knoll)								
	jelly	..	20 gm	30	0	..	3	4	
	tablets	..	..	20	36	0	..	4	0
			200	25	6ea	..	34	0	
<i>R</i>	<b>Soventol C</b> (708 Knoll)								
	dragees	..	..	20	36	0	..	4	0
				200	25	6ea	..	34	0
<i>● Steriloderm</i> (1341 Willows)									
	gel	..	..	60 gm	37	6	9	6	
<i>R</i>	<b>Tabloid</b> (208 BW)								
	ergometrine								
	maleate 0.5 mgm	..	25	82	0	..	..	10	3
			100	284	0	..	..	35	6
			500	1200	0	..	..	150	0
<i>● Tramil</i> (655 ICC)									
<i>● Delete</i>	Triad (107 BH&L) cherry malt & oil								
<i>A</i>	<b>Valderma</b> (343 DHL) jar	..	1 oz	24	2	..	..	2	9
			2 oz	39	4	..	..	4	6
			4 oz	50	6	..	..	6	0
<i>R</i>	<b>Valette</b> (373 DHL)								
<i>●</i>	hair colour spray	..	..	76	0	..	..	9	6
<i>A</i>	<b>Vytina</b> (107 BH&L)								
	tonic phosphates	..	4 oz	21	6	5	4½	3	6
			8 oz	34	0	8	6	6	0
			16 oz	60	0	15	0	10	0
<i>R</i>	<b>Wellcome</b> (208 BW)								
	ergometrine maleate								
	0.5 mgm in 1cc	..	10	62	0	..	..	7	9
			100	464	0	..	..	58	0
<i>● Wopsey</i> (107 BH&L)									
	wasp killer	..	..	16	0	..	..	2	3

***AMENDMENTS TO KEY TO SUPPLIERS:***

(839 MGS)=MILLER GWYNNE SALES, LTD., 112a Junction Road, London, N.19. Archway 0199.  
(943 Pathescope)=PATHESCOPE (LONDON), LTD., 38 Brooke Street, London, E.C.1. Holborn 0461.

**MEGGEZONES**  
FOR COUGHS, COLDS AND CATARRH

**dex** PASTILETS  
THE MODERN COUGH TREATMENT

**MEGGESEN**  
DYSPEPSIA TABLETS

**THE BRAND LEADERS IN THEIR FIELDS**



# INFORMATION DEPARTMENT

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Inquiries sent to the department by post should be accompanied by a stamped addressed envelope. Inquiries may also be put by telephone : CENtral 6565.

*A Modern Version of  
an Old Favourite...*



# The Art of Dispensing

First published 1888

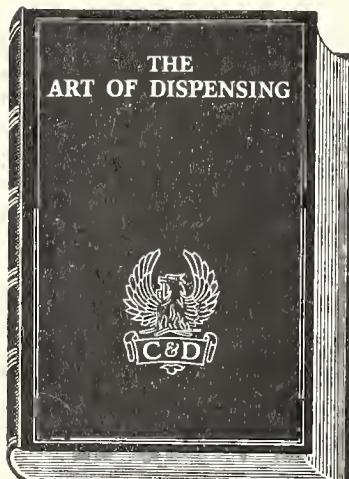
Present edition completely  
re-written

"The Art of Dispensing" is the most economical, complete and up-to-date manual dealing with the pharmacist's work at the dispensing counter.

This treatise on the methods and processes involved in compounding medical prescriptions has proved of untold value to generations of pharmacists and may indeed, be regarded as the classical work on this subject.

Many of the difficulties and perplexities met with in the daily practice of the art and craft of pharmacy are explained in simple yet concise fashion. This book is a necessary part of the equipment of every dispensary.

New ideas have been incorporated and scientific knowledge has been added to the art formerly based on skilful training during apprenticeship and from experience gained in pharmacies of international repute.



Price 21s.  
(Postage 1s. 4d.)

Order from your Bookseller or direct from The Publisher:

The  
**CHEMIST AND DRUGGIST**

28 ESSEX STREET ... STRAND ... LONDON W.C.2



whitens  
as it washes

**What's the difference between Nylon-White . . .**

NYLON-WHITE whitens dingy nylon, Bri-Nylon\*, Bri-lon\* and Ban-Lon\* *even as it washes*. Regular use prevents discolouration—and can't harm the most delicate lingerie.

**... and Super-White?**

Used as a rinse *after washing*, new-formula Dylon Super-White takes the yellow out of wool, cotton, linen, silk, rayon, acetate and Celanese\*—and particularly nylon. It's better than ever now with Solite, the exclusive new brightening agent, and keeps woollens wonderfully soft. Dylon Super-White comes in the 9d sealed tins or 2/6 economy-sized jars.

NYLON-WHITE offers consistent profit on a small outlay: 50% on cost. It sells in sachets at 9d. each, two dozen sachets in a display outer.



\*Registered trade mark

MANUFACTURING

CHEMISTS

ESTABLISHED IN 1839



## ZIM Dental Balm ZIM Pastilles

Two excellent preparations for the relief of infections of the mouth. Particularly indicated in the treatment of discomfort caused to tender gums when wearing new dentures or when old dentures have made the gums sore.

*Attractive packs and showouters  
Counter display material*

For further information and trade terms ask our representatives or write to our Head Office.

**ARTHUR H. COX & CO. LTD. BRIGHTON. ENGLAND.**

## STAPHYLOCOCCAL SUPERINFECTIONS

"Patients in hospital who have had an operation, and a course of 'broad-spectrum' antibiotics, sometimes develop diarrhoea which may be severe and even fatal."

*Lancet Annotations, 25th February, 1961*

**ENPAC**

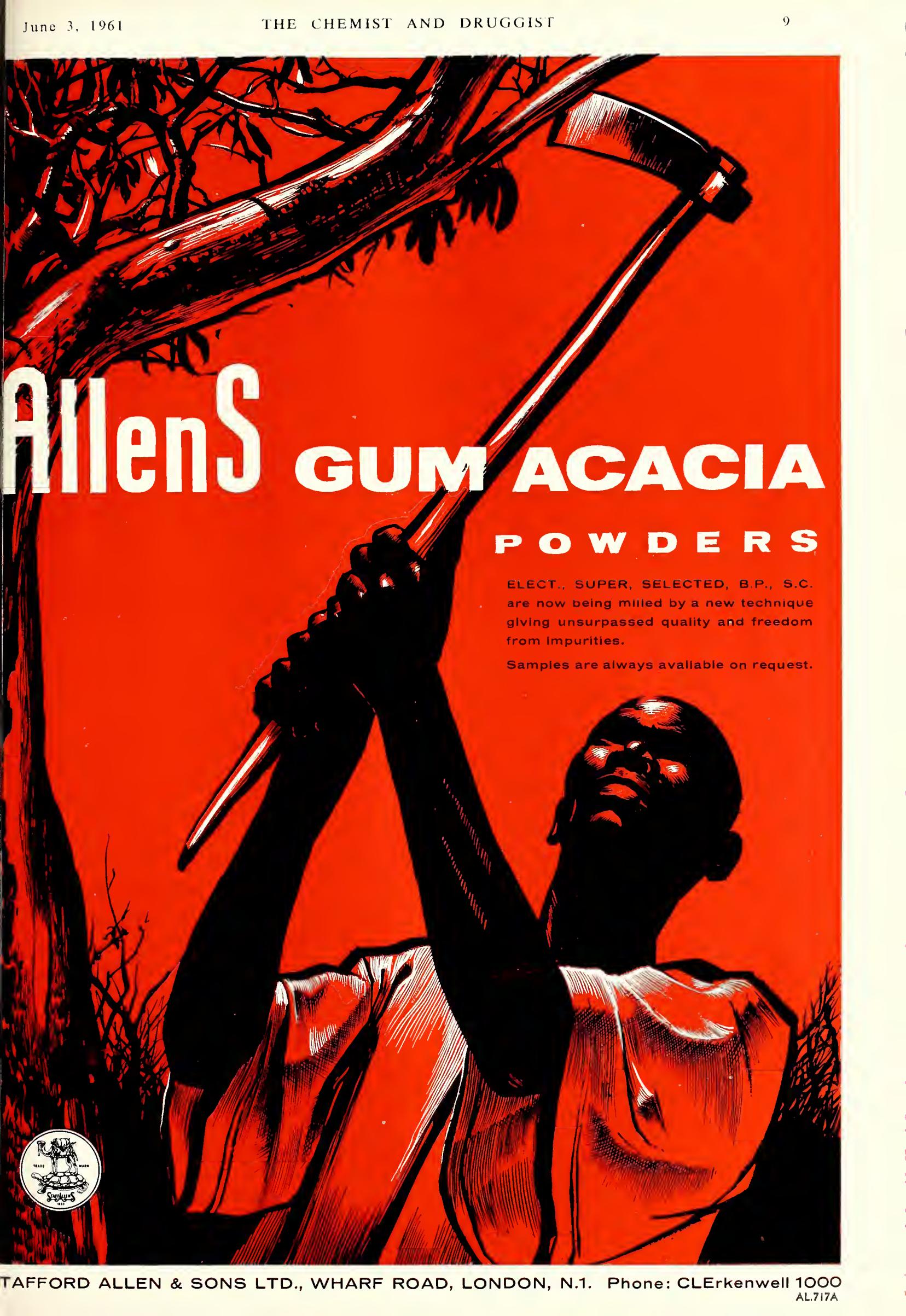
### LACTOBACILLUS ACIDOPHILUS PREPARATION

For the prophylaxis and treatment of staphylococcal super infections.

"It was found that the staphylococci increased in both groups at the beginning of antibiotic treatment. Staphylococci continued to increase in the patients taking the antibiotic alone, but in those taking 'ENPAC' there was a pronounced drop in numbers."

*Gordon D., Macrae J., & Wheater D. M. W. Lancet—May 4th, 1957. pp. 899—901*

**WILTS UNITED DAIRIES LIMITED • NUTRITION DEPARTMENT • TROWBRIDGE • WILTS**



# AllenS GUM ACACIA

## POWDERS

ELECT., SUPER, SELECTED, B.P., S.C.  
are now being milled by a new technique  
giving unsurpassed quality and freedom  
from impurities.

Samples are always available on request.



# Color-Glo by L'OREAL

the BIGGEST selling  
BIGGEST profit making hair colouring



Link up with this biggest ever COLOR-GLO advertising campaign — stock up now and display the eye-catching COLOR-GLO packs and showcards. You're sure of regular repeat sales and bigger than ever profits!

Nation-wide Color-Glo Advertising reaches millions of women every week!

DOMINATING SPACES IN  
FULL COLOUR AND MONOTONE  
in WOMAN, WOMAN'S OWN,  
WOMAN'S REALM,  
WOMAN AND BEAUTY, SHE,  
EVERYWOMAN, HONEY,  
MODERN WOMAN,  
WOMAN'S MIRROR,  
DAILY MIRROR,  
and SUNDAY PICTORIAL

**Color-Glo is now available in 9 beautiful shades!**

DEEP RICH CHESTNUT · WARM CHESTNUT · BLACK TULIP · AUBURN  
(Brown Chestnut) (Havana Brown) (Deep Burgundy)

DEEP AUBURN · GOLDEN CHESTNUT · MOLTEN GOLD · DOVE GREY · HONEY BROWN

and the New Color-Glo Sherry Shades

DARK-BROWN SHERRY  
BROWN SHERRY

AMBER-BROWN SHERRY  
LIGHT SHERRY

# Color-Glo

by L'OREAL

Price 23/- per doz. bottles, plus tax.  
Retail 3/10 per bottle

**SEMI-PERMANENT HAIR COLOURING**



Manufactured and Distributed by GOLDEN LIMITED, 7 Grosvenor St., London, W.1. Hyde Park 1671/6  
Republic of Ireland enquiries to: Lilmar Pharmaceuticals Limited, Santry, Dublin

# 12345 WAYS TO HELP YOU DOUBLE YOUR RONSON C.F.L. SHAVER SALES

Here's your chance to increase your Ronson shaver sales to a new high! Ronson's five-point campaign helps you—and attracts new customers.

**HOME TRIAL SCHEME**—a sure way to increase your sales. Men who use the Ronson shaver on free trial usually want to keep it. So encourage them to try it—and buy it!

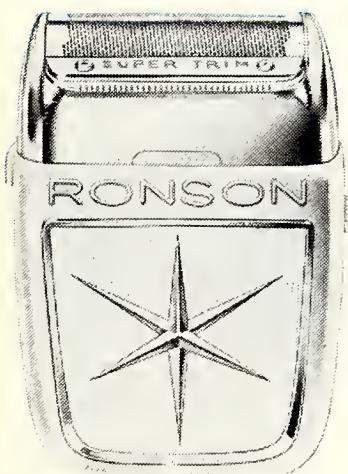
**DEFERRED TERMS**—at no risk to you! Your customers find it easy to buy the Ronson, paying only £1.10.0 down and eight monthly instalments of £1.0.0.

**PERSONAL INCENTIVE PLAN**—many handsome prizes are offered to retailers and assistants who sell Ronson shavers—up till the end of July 1961.

**QUANTITY DISCOUNTS.** The more Ronson shavers you sell, the more profit you make on each shaver—you make 3/- per shaver extra on an order for six shavers.

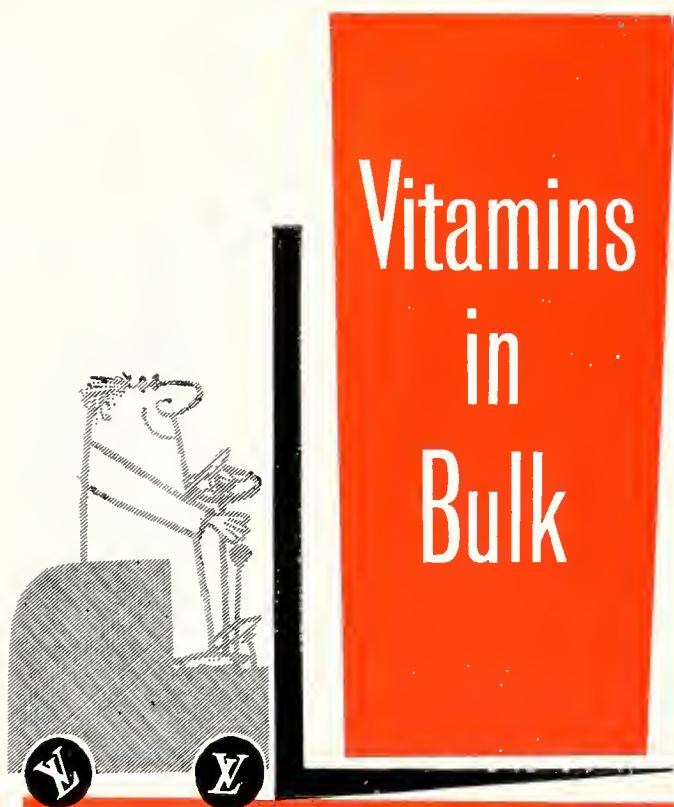
**THE PROFIT-PLUS PLAN.** For every six shavers you order as a single consignment, you get an extra FREE shaver provided you spend £6.10.0 on local advertising. And remember—Ronson supply free advertising blocks, too!

**To get maximum benefit from these schemes, use the colourful compelling C.F.L. shaver display material. Then stock up and be ready to double your sales!**



**RONSON** International Standard of Excellence

RONSON PRODUCTS LTD • LEATHERHEAD • SURREY • LEATHERHEAD 4444



**Vitamins  
in  
Bulk**

Natural & Synthetic Vitamin A  
 Vitamin B<sub>1</sub> (Aneurine  
     Hydrochloride B.P.)  
 Vitamin B<sub>2</sub> (Riboflavin B.P.)  
 Vitamin B<sub>6</sub> (Pyridoxine  
     Hydrochloride B.P.C./U.S.P.)  
 Vitamin B<sub>12</sub> (Cyanocobalamin B.P.)  
 DL. Calcium Pantothenate U.S.P.  
 Vitamin C (Ascorbic Acid B.P.)  
 Vitamin D<sub>2</sub> (Calciferol B.P./U.S.P.)  
 Vitamin D<sub>2</sub> (Oily Concentrate)  
 Natural Vitamin E  
     (d-Alpha Tocopheryl Acetate)  
     (d-Alpha Tocopheryl Acid  
         Succinate)  
     (Mixed Tocopherols)  
 Natural Vitamin E (Feed Grade)  
 Folic Acid B.P./U.S.P.  
 Inositol  
 Nicotinic Acid B.P.  
 Nicotinamide B.P.

Get your vitamins from  
**VITAMINS LIMITED**

Bulk Sales Dept., Vitamins Limited (Dept. (A.A.3)),  
 Upper Mall, London, W.6. Telephone: Riverside 5001  
 Telegrams: VITAMINS, LONDON, TELEX.

# At last!

## INSTANT RELIEF FROM BRONCHITIS, COLDS, SINUSITIS, LARYNGITIS AND ATTACKS OF ASTHMA

At last the Climamask is available in Great Britain. For over a year it has been in use all over the Continent and Doctors everywhere have testified to its extreme value in all forms of respiratory troubles. In Great Britain with its humid weather it will be even more valuable. The complete outfit and attractive pack, costs £4.15.0 retail including Purchase Tax, showing you a clear profit of 23/9. The Climamask is safe and simple to use. The sufferer simply plugs in and inhales the warm, healing, medicated air. It is a complete treatment in itself. No tablets or lotions are necessary. Weight 10 ozs. Perfectly safe, can be sterilised. 220/240 volts, A.C. 12 months' guarantee. *Sufferers from Asthma should first seek medical advice.*



### **clima mask**

HICO

THE MODERN MEDICAL WARM AIR TREATMENT

Make sure you can meet the public demand for this fast selling, profitable line. Send for full details or ask for a representative to call.

Sole Distributors:

**W.E.D. DISTRIBUTORS LIMITED, VERGERS HOUSE,  
SHOREDITCH CHURCH, LONDON.** Tel. SHoreditch 6983

**Do not  
disappoint  
your customers  
—stock and display**

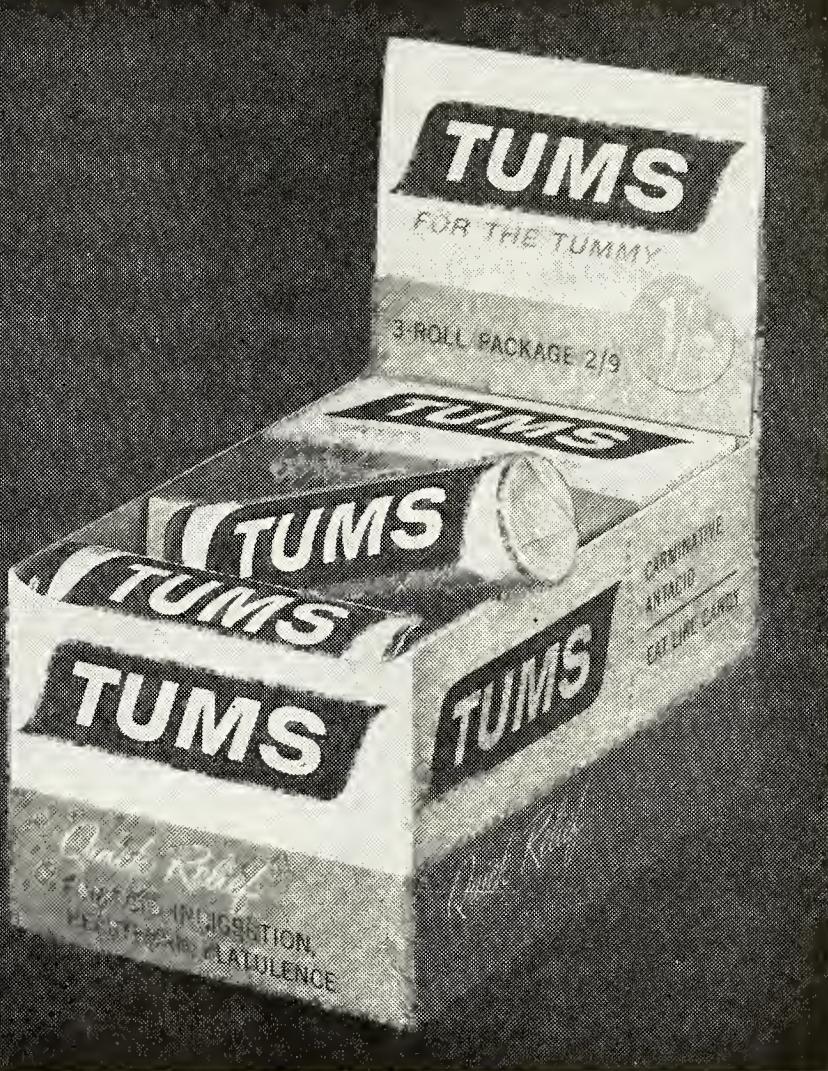
# **askit**

Powders and tablets for the safe and  
speedy relief of headaches, colds, chills,  
rheumatic and nerve pains.

**EX ALL LEADING WHOLESALE HOUSES**

TOP SELLER  
FROM AMERICA

# TUMS ARE HERE!



TUMS — America's biggest-selling antacid tablets are now manufactured and sold in Britain. TUMS are nationally distributed and nationally advertised on a big scale. You can order TUMS from your usual wholesaler in attractive display boxes for quick-turnover counter sales. Don't lose sales, there's powerful promotion to bring the customers in, so why not order a  $\frac{1}{4}$ -dozen display boxes to-day.

## IN ATTRACTIVE DISPLAY BOXES

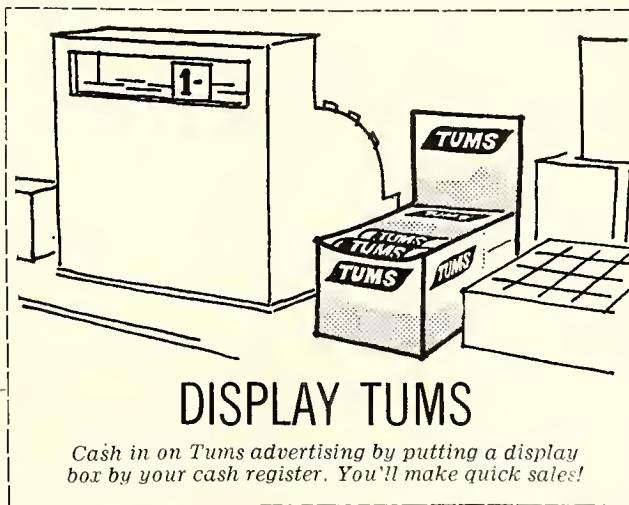
Retail value: 11/6. Trade price: 84/- per doz. + P.T.  
From your wholesaler

## BIG ADVERTISING

Tums are nationally advertised throughout the year in :

THE TIMES	SUNDAY TELEGRAPH
DAILY EXPRESS	SUNDAY EXPRESS
DAILY MIRROR	SUNDAY PICTORIAL
DAILY HERALD	NEWS OF THE WORLD
DAILY MAIL	BELFAST TELEGRAPH

These papers have a total circulation of over 28 million copies. This means... **BIG SALES FOR YOU!**



*Cash in on Tums advertising by putting a display box by your cash register. You'll make quick sales!*

**TUMS FOR THE TUMMY — ORDER FROM YOUR WHOLESALER**

# HERE IS *Mimo*

A NEW LUXUR

Originally produced in Sweden and used  
2 out of 3 women there and in many other  
Continental countries.

**Now made in Great Britain**

**MIMOSEPT NAPKINS** are packed in dozens  
neat, opaque white polythene bags.  
All contain D-5, an exclusive deodorant.

**Retail price 2/6 giving you 10d profit on best terms**

MADE & DISTRIBUTED BY DALMAS LIMITED · 215 CHARLES STREET · LEICES

event



**SANI-PROTECTION**

**Potentially  
the best-selling  
Sanitary Napkin  
of them all**

**Over £50,000 will be spent  
on National Advertising within  
the first 8 months of its  
introduction in this country.**

At last...  
the answer to  
a woman's  
monthly  
troubles

a new treatment which helps  
you in four important ways

Are you one of the thousands of  
women who find the monthly period  
well, a difficult time? You need not  
feel like this any longer.

There are two kinds of period problem:  
pain during the period itself; and pre-  
menstrual tension, which is a whole  
collection of distressing symptoms  
occurring in the days before it.

Quadrin, a new medicine specially formulated  
for the relief of both.

Period pain (usually abdominal or  
pelvic pain, and sometimes backache)  
is, of course, easily recognisable. Pre-  
menstrual tension is more complex,  
and you may not even have realised  
that your symptoms were connected  
with menstruation at all. You are  
tense, headachy, depressed, irritable.  
You feel fatter; your clothes suddenly  
seem tight and uncomfortable; you  
don't look your best.

There is a reason for this. Before menstruation  
your body does, in fact,  
accumulate much more fluid than at  
other times, and this is one of the  
things that Quadrin is designed to  
correct. Here are the four ways in  
which Quadrin acts to help you:

- It gives specific relief of pelvic  
and abdominal pain.
- It rapidly relieves general  
pain, headaches etc.
- It helps you relax.
- It gets rid of that "blown-up"  
feeling, and, with it, your  
tension and irritability.

QUADRIN has no toxic or other un-  
pleasant side-effects, and is absolutely  
safe to take in the prescribed dosage.  
Buy Quadrin from your chemist—and  
be fully alive every day of every month.  
319 for more than a month's supply

New **Quadrin**  
is being advertised  
like this...  
in magazines like these!

WOMAN • WOMAN'S OWN  
WOMAN'S REALM • WOMAN'S WEEKLY  
WOMAN'S ILLUSTRATED • WOMAN'S DAY  
WOMAN'S MIRROR • WOMAN & HOME  
EVERYWOMAN • MODERN WOMAN  
HOUSEWIFE • WOMAN & BEAUTY

read by 13,000,000 women regularly, all  
over Britain, cover to cover, ads and all!

**Quadrin**

If you would like to know more  
about Quadrin before buying it,  
please write for a booklet, which  
will be sent to you in a plain  
envelope.

New **Quadrin** is

## These are your Trade Terms for Quadrin

	PER DOZEN
	S. d.
<b>RETAIL PRICE</b> 3/9 per bottle of 18 tablets (inc. tax)	45. 0.
<b>TOTAL INVESTMENT</b> Trade Price 25s. 6d. Tax 6s. 3d.	31. 9.
<b>YOUR PROFIT</b>	13. 3.

**Quadrin** is the first and only heavily advertised product available in this country, without prescription, which is specifically formulated for the relief of Premenstrual Tension and Period Pains.

### THE FORMULA:

BENDROFLUAZIDE	0.5 mgm.
HOMATROPINE METHYLBROMIDE	1 mgm.
PARACETAMOL	250 mgm.
EXTRACT VALERIAN B.P.C.	10 mgm.

**Free Booklet:** For any of your customers who want to know more about Quadrin there is an explanatory booklet describing in simple, non-medical terms the facts about Premenstrual Tension and how Quadrin acts to relieve it. If you'd like to have copies, just let us know!

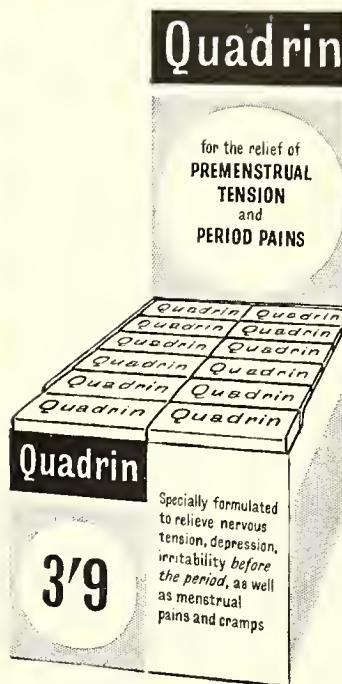


### And to make sure there's no muddle:

Please note that the new Quadrin entirely supersedes the original Quadrin, which was discontinued in January, 1961 (see "The Chemist & Druggist" 7.1.61). You will be credited for returns of the original product (bottles of 50 tablets) when you place your orders for new Quadrin.

Order your supplies of Quadrin right away!

ARROWS LYHAM LTD · 197/215 LYHAM ROAD, LONDON, S.W.2



These display outers each contain 12 bottles of Quadrin.

Only 18 square inches counter space, and you get 41.73% profit!



# out this month!

It brings you 41.73% profit on your investment!

## BRITISH ALKALOIDS LIMITED

(MANUFACTURERS OF T.C.P.)

### IMPROVED SALES

The thirty-second Annual General Meeting of British Alkaloids Limited was held on the 1st of June at Winchester House, E.C.2, the Chairman, Mr. E. Oswald Toft, presiding.

*The following is his circulated statement:—*

Ladies and Gentlemen: As in the past, my opening remarks appertain to the Profit and Loss Account for the year ended 31st March, 1961, which shows the Gross Profit on trading at £151,355, which is £6,082 in excess of that for the year ended 31st March, 1960. There is an increase of £5,536 in the Advertising Expenditure written off compared with that of the preceding year, and as previously Advertising Goodwill is not valued on your Company's Balance Sheet.

### TAXATION

The charge for Taxation of £35,400 in the Profit and Loss Account is computed on the profit for the year and includes the Company's Profits Tax liability calculated at £8,800, which is £2,200 more than the corresponding charge last year. This unwelcome increase in the Profits Tax charge arises because of the larger figure of Profit on which it is calculated at the excessive rate of 12½ per cent. compared with 10 per cent. for the previous year. The proposed rate of Profits Tax for 1961-62 of 15 per cent. will clearly add still further to the onerous burden of taxation borne by equity Shareholders.

The sum of £4,500 has been transferred to General Reserve bringing our total surplus on Revenue Account shown on the Balance Sheet to a figure of £120,543. After all appropriations have been taken into account, including the Interim Dividend already paid, there is a balance standing to the credit of the Profit and Loss Account of £41,535 available for the payment of a Final Dividend, which your Board now recommend should be 3.3 pence per share, less Income Tax, on the Issued Share Capital of the Company, the same rate as last year.

Subject to their approval of the Dividend, Warrants will be posted to Shareholders on the 1st June, 1961.

During the year we have incurred expenditure of £11,613 on capital equipment which is already proving its worth in labour saving. Current Assets standing at £199,319 exceed Current Liabilities and Provisions by the substantial margin of £120,125, after making provision for the Final Dividend.

### TRADING

This year's turnover proves to have been a record, brought about by a substantial increase in sales during the second half of the year. This can no doubt be attributed to a large extent to the country-wide outbreak of a relatively mild type of influenza and to the prevalence of colds during the winter months.

On this occasion we employed Television as an advertising medium in the London, Midland and Yorkshire areas, in addition to the Lancashire area, which had been the focal point of our experimental Television campaign some fifteen months earlier. This extended Television Advertising, coupled with National Press advertisements, coincided with these winter ills and undoubtedly contributed considerably to the very satisfactory results.

Our exports in total for the current year show a decrease in value compared with those of last year, and the difficulties which confront the successful sale of our products in overseas markets, to which I have previously referred, are still with us and to a certain extent these handicaps are even more difficult to circumvent. For example, in the state of Victoria, Australia, after building up a satisfactory sale, repressive legislation has been introduced which makes it virtually impossible for us to continue to sell T.C.P. in that part of the Country. On the other hand, with the exception of South Africa, where their system of import permits has had an adverse effect upon sales and consequently prevented progress, headway has been made in African territories, particularly in those which have recently become independent.

Among other matters which will be of interest to you, is that T.C.P. Ointment will shortly be available in tubes instead of in jars, and increased advertising of this product for the relief of Haemorrhoids and Pruritus has helped materially to increase its sales this year. We are also formulating a new cough preparation, which we expect to have ready to put on the market by next winter.

It is with much pleasure that I again express my thanks and appreciation to all branches of the Pharmaceutical Trade for their continued support and co-operation, and conclude my remarks by expressing my sincere thanks to the Company's staff and associates who have contributed so much to the satisfactory results of the past year.

The Report and Accounts were unanimously adopted, and a Final Dividend of 3.3 pence per share, less Income Tax, for the year, was passed.

The retiring Director, Mr. K. G. Patteson, was re-elected, and the remuneration of the Auditors, Messrs. Oakley, Wederell, Crouch & Co., having been fixed, the proceedings terminated with a cordial vote of thanks to the Chairman, Directors, and Staff.

# Best camera value

## in Britain



### ILFORD SPORTSMAN

Vario £11.19.6      Pronto £15.15.0  
 Prontor SVS £18.17.6      Rangefinder £19.19.11  
 Cases £2.3.7 (standard) and £3.1.0 (de-luxe)



### ILFORD SPORTI ROLL-FILM CAMERA

Sporti roll-film camera £3.17.7  
 Super Sporti £5.12.6  
 Cases 21/10 (standard) and 29/1 (de luxe)  
 ILFORD Sporti 4 camera 49/8  
 Case 17/5

Last year showed record sales of ILFORD cameras. Your customers find them irresistible. Make no mistake — 1961 will set *new* sales records for ILFORD Sportsman and Sporti cameras! Take *YOUR* share of good business: there is no better camera value you can offer your customers.

***Every camera is the better for an ILFORD film***

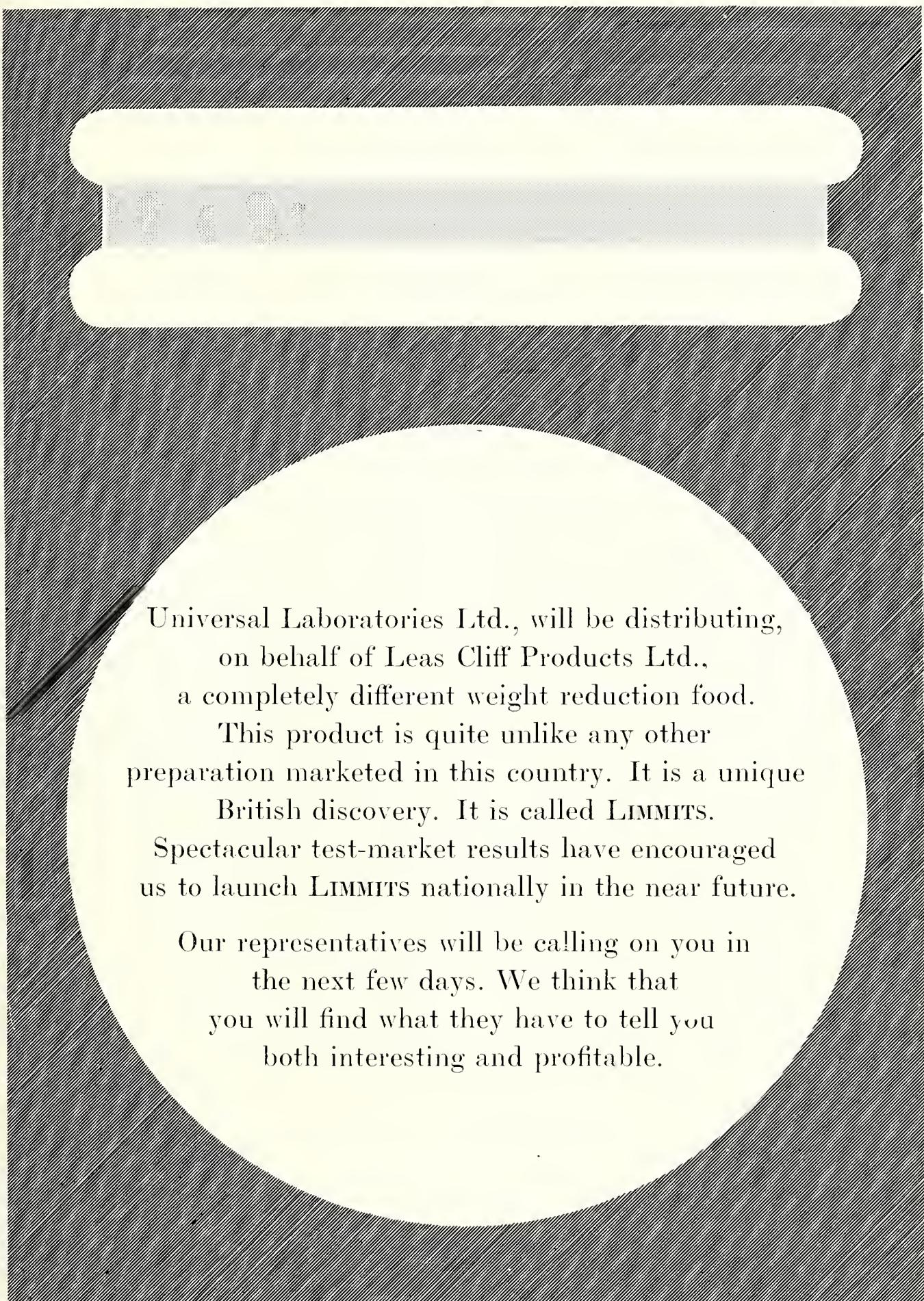
Selochrome Pan for happy snaps  
 FP3 for fine grain  
 HP3 for action shots  
 HPS for extreme speed  
 Pan F for big enlargements  
 ILFACHROME 35mm reversal film for glowing colour transparencies  
 ILFACOLOR colour negative roll film for brilliant colour enprints

# ILFORD

**cameras and films**  
*the season's best sellers*

ANNOUNCING  
THE APPOINTMENT OF  
**UNIVERSAL  
LABORATORIES  
LIMITED**  
AS SOLE SELLING AGENTS FOR  
**LEAS CLIFF  
PRODUCTS  
LIMITED**

FOLKESTONE, KENT



Universal Laboratories Ltd., will be distributing,  
on behalf of Leas Cliff Products Ltd.,  
a completely different weight reduction food.

This product is quite unlike any other  
preparation marketed in this country. It is a unique  
British discovery. It is called LIMMITS.

Spectacular test-market results have encouraged  
us to launch LIMMITS nationally in the near future.

Our representatives will be calling on you in  
the next few days. We think that  
you will find what they have to tell you  
both interesting and profitable.

## THE ALL ROUND DEVELOPER THAT PREVENTS FOG AND STAINS



# UNIVERSOL

This concentrated developer contains Johnson '142' for the prevention of fog and stains, and Johnson '326' wetting agent to ensure even flowing over the sensitized surfaces, so eliminating air belts. For bromide papers it is diluted one part to 7 of water. Although development is usually complete in 1½ to 2 minutes UNIVERSOL has so much latitude that these times may be considerably extended enabling the full image depth to be achieved with rich black tones in the darker areas without any degradation of the brighter portions of the picture. Contact prints developed in UNIVERSOL (1+3) have the characteristic blue black image colour with an excellent tonal range. As a film developer UNIVERSOL produces bright clear negatives of medium to high contrast (gamma 0.7—0.75) eminently suitable for contact printing. Reduced developing times produce good

enlarging negatives. Time and temperature tables for every popular film are given with each bottle. The concentrated solution has excellent keeping properties.

**250 c.c. size 3/6, 500 c.c. size 5/6.**

**JOHNSONS  
OF HENDON LTD**

**FOR CONFIDENCE IN CHEMICALS**

# The Magic of NORDIA

## New Shops for Old!



**Masons**  
STORE-FITTERS

25 WELLINGTON STREET,  
LEEDS  
(Tel. 35821)

128-134 BAKER STREET,  
LONDON, W.1  
(WELbeck 1628)

**THE PERFECT ANTACID (combined with an ANTI-SPASMODIC)**

## Tabs ALKA-DONNA

(Magnes Trisil grs. 7.5. Aluminium Hydroxide grs. 4. Ext Belladonna grs. 0.125).

## Tabs ALKA-DONNA-P

(Magnes Trisil grs. 7.5. Aluminium Hydroxide grs. 4. Ext Belladonna grs. 0.125.  
Phenobarbitone grs. 0.125).

BOTH produce an *IMMEDIATE* antacid effect, the Ext Belladonna acting as an intestinal anti-spasmodic. In ALKA-DONNA-P Phenobarbitone has been added to reduce nervous tension commonly associated with gastric disorders.

**BOTH Alka-Donna and Alka-Donna-P are available under NHS.**

Packs and BASIC (NHS) prices :

Tabs Alka-Donna —	bottles of 60s @ 3/4d. (plus P/tax)
	Dispensing pack (350s) @ 17/6d. (exempt P/tax)
Tabs Alka-Donna-P —	bottles of 60s @ 3/8d. (plus P/tax)
	Dispensing pack (350s) @ 19/6d. (exempt P/tax)

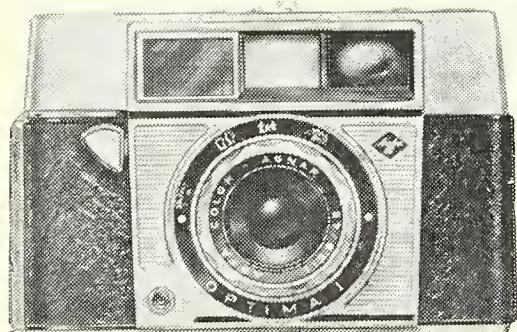
**CARLTON LABORATORIES (SOUTHERN) LTD**

2 NORFOLK SQUARE, BRIGHTON, SUSSEX.

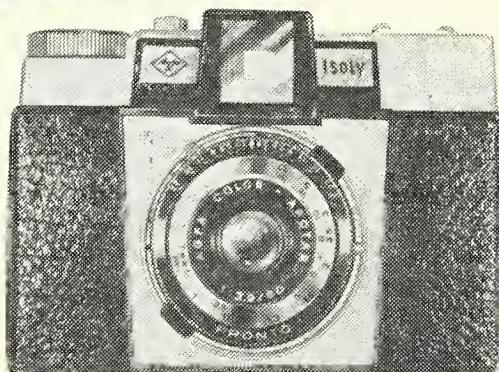
Telephone HOVE 37701



# MAKE IT A TAKING SUMMER WITH AGFA CAMERAS

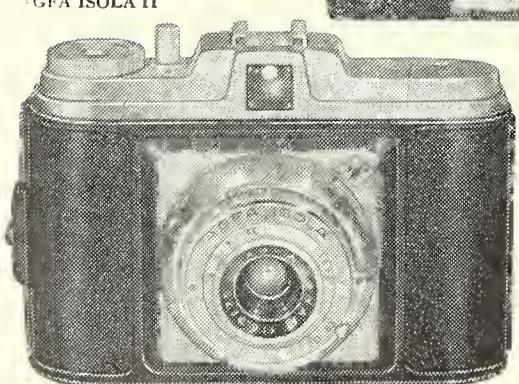


AGFA OPTIMA I

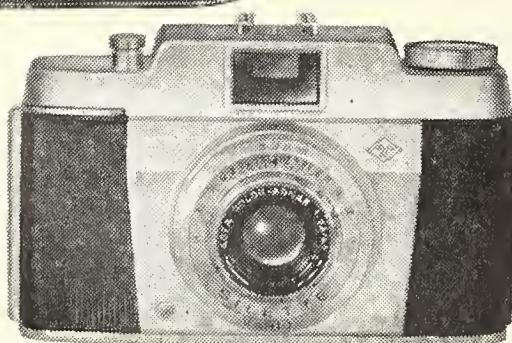


AGFA ISOLY III

AGFA ISOLA II



**SELL  
AGFA  
AND BE  
SURE**



AGFA SILETTE VARIO

**PRICE-RIGHT PRECISION-MAD**

**AGFA OPTIMA I** fully-automatic 35 mm camera. Automagic single-action lever replaces all manual operations and calculations. Green/Red signals f2.8 Agfa Color-Agnar lens. Prontor Lux shutter "Zone" focusing. £31.19.8.

**AGFA ISOLY** cameras give SIXTEEN 4 x 4 cm exposures on 120 size roll film!

**ISOLY O** Outstanding-quality Meniscus lens. Large optical eye-level viewfinder. Easy film loading. Two apertures f11 and f16. £4.9.4.

**ISOLY I** Achromat f8 lens. Two apertures, f8 and f11. Shutter — B, 1/30th, 1/100th sec. £6.4.5.

**ISOLY II** Agfa Agnar f6.3/55 mm. Two apertures f6.3 and f11. Singlo shutter — B, 1/30th, 1/100th sec. £8.4.6.

**ISOLY III** Agfa Color Apotar f3.9/60 mm lens. Lens apertures from f3.9 to f22. Pronto shutter — B, 1/30th, to 1/250th. Delayed Action release. £12.6.6.

Leather Ever-ready case for all models £2.7.1. Plastic Ever-ready case for all models £1.4.5.

**AGFA ISOLA 2 1/4" x 2 1/4"** cameras with retractable lens mounts.

**ISOLA I** Meniscus lens. 3 focusing positions from 5 ft. to infinity. Setting lever for two apertures. Built-in yellow filter £4.15.0.

**ISOLA II** Agfa Agnar f6.3/75 mm lens. Singlo 2-speed shutter. £7.6.6. Isola Ever-ready case for both models £1.4.5.

**AGFA SILETTE VARIO** lightweight 35 mm camera. So light, so easy to handle. f2.8 Agfa Color-Agnar lens. Vario 3-speed shutter. X-synch. Large viewfinder. £9.18.6. Leather Ever-ready case £2.15.10.

**AGFA SILETTE 4-SPEED** Streamlined 35 mm camera with big Brightline viewfinder to clearly indicate full negative area. Agfa Color-Agnar f2.8 lens, 4-speed Pronto shutter. Synchronised for flash. £15.17.8.

**AGFA LTD** • 27 REGENT ST • LONDON • SW1 • REG 8581/4

\* Registered Trade Mark of the Manufacturers, Agfa A.G., Leverkusen/Western Germany

# F. W. Hampshire choose the Daily Mirror to launch dor



Precious...

here's your  
new secret weapon!

Press  
the  
button  
and  
defend  
your  
charms....

Stay adorable with

**dor**  
deodorant

the press-button deodorant with a fresh and lovely fragrance

Debs, duchesses, darling-loves all . . . . here is your new dor deodorant. Lift the cap, gently touch the press-button, and spray under each arm with a fresh, fragrant, perfume-cool deodorant, light and delightful. Think of cream and stick deodorants. Now think of dor spray; beautifully un-messy, smoothly efficient, neat enough for a handbag, nice enough to lend to a friend. Bliss in fact.

Find the chemists and cosmetic counters now. Price: five shillings.

This is the full page that will introduce 'dor'—an exciting new spray deodorant—to 35% of all the women cosmetic users in Britain.

With this one page, 'dor' will reach nearly three million potential customers—one third of the entire market.

Take full advantage of this nation-wide campaign—display 'dor' prominently. Make sure customers see that you are their nearest stockist.

# Daily Mirror

Unmatched in the mass markets. 14,104,000 readers

(I.P.A. National Readership Survey September '59 to June '60)

# WOODWARD'S IS A MUST IN EVERY BABY PRODUCTS' DISPLAY!

## Watch sales soar!

There is a steady and growing demand for Woodward's Gripe Water, but you can very easily increase your sales still further. Give Woodward's a prominent place among all your baby products so that mothers can see it and ask for it when making their other purchases. By setting our extensive advertising to work for you in this logical way you will be delighted with the additional profits which will follow.

MAKE THIS POWERFUL  
ADVERTISING CAMPAIGN  
WORK FOR YOU!

Hard-sell advertising appears regularly in the following nationals and magazines. Advertisement after advertisement tells the Woodward's story time and time again to over

**80% OF ALL MOTHERS**

of young children under 3 years old.

### MAGAZINES

WOMAN'S OWN \* WOMAN \* WOMAN'S REALM  
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WOMAN & HOME \* MOTHER \* PARENTS  
MATERNITY NEWS \* NURSERY WORLD  
TIT-BITS \* THOMSONS WEEKLY NEWS

### NATIONAL SUNDAY NEWSPAPERS

NEWS OF THE WORLD \* SUNDAY PICTORIAL **KEEPS BABY WELL AND HAPPY**

SANITAS GROUP SALES LTD. · SANITAS HOUSE · CLAPHAM ROAD · LONDON SW9

**WOODWARD'S  
GRIPE WATER**

**KEEPS BABY WELL AND HAPPY**

SANITAS GROUP SALES LTD. · SANITAS HOUSE · CLAPHAM ROAD · LONDON SW9



New dense soft coat... healthy skin...  
all-round improvement in general condition



NEW injectable form of

# Biotin

**TREATS MILIARY ECZEMA**

Now available in 50 microgramme ampoules for intra-muscular injection for the treatment of

- Miliary eczema of cats
- Paronychia and hyperkeratosis in dogs and cats
- Seborrhoeic eczema in dogs and cats
- Loss of coat, condition and appetite
- Loss of pigmentation in fur of animals

Biotin ensures improvement in skin tone, induces new growth of soft, lustrous coat with good bloom and rich colour. It has also an excellent general tonic effect. Cats regain appetite, put on weight, become more contented.

For full details please write to:



**VITAMINS LIMITED**

(VETERINARY DIVISION) UPPER MALL, LONDON, W.6

# Now hayfever's here

**PROVED REMEDY.** Right now unfortunate hayfever victims look to you for relief. Put your experience to work. Recommend Besorbon, the proved fast acting medicinal snuff.

**EACH BESORBON PACK** is completely hygienic and fits neatly into your customers' pockets. Comprehensive directions are enclosed inside.

**INCREASE YOUR SALES.** Stock Besorbon by the dozen. Obtain the attractive counter unit free. By displaying Besorbon prominently now you'll gain more sales—more profit.

**It's big selling for**

## **BESORBON**

REGD. TRADE MARK

**MEDICINAL SNUFF**

KEMSALES LTD., EASTCHEAP, LONDON, E.C.3

### **SPECIAL ANNOUNCEMENT**

### **GREATER PROFIT FOR YOU!!**

The retail price of the popular BOLDOOT EAU DE COLOGNE CLEANSING TOWElettes will be increased with effect from the 1st May, 1961, to 2/6d. per box of five. The whole of this increase will be passed on to the trade. The new wholesale price per Outer of eighteen boxes will be 22/6d. plus Purchase Tax; retail value 45/0d. thus giving you a profit of 11/3d.

Place your orders today through your usual wholesalers.



**BOTANICALS  
CHEMICALS  
GUMS**

**ESSENTIAL OILS  
SPICES  
WAXES**

**NEW YORK**

**HAMBURG**

### **STROPHANTHIN-G**



### **ATROPINE SULPHATE**



### **STRYCHNINE ALKALOID**



**JOHN KELLYS (LONDON) LTD.**

24 OLD BROAD STREET, E.C.2.

Telephone LONDON Wall 6585 (4 lines)  
Telegrams: "Ergotine, Stock, London"  
Telex: 28760

## **THOVALINE**

**for:—**

### **BEDSORES**

**BEDSORES** can be prevented by applying **THOVALINE** before the trouble starts but if already in existence will help greatly in healing.

### **BURNS**

**BURNS** Unique action. **THOVALINE** is self sterile it eliminates pain and is a rapid healer.

### **DERMATITIS**

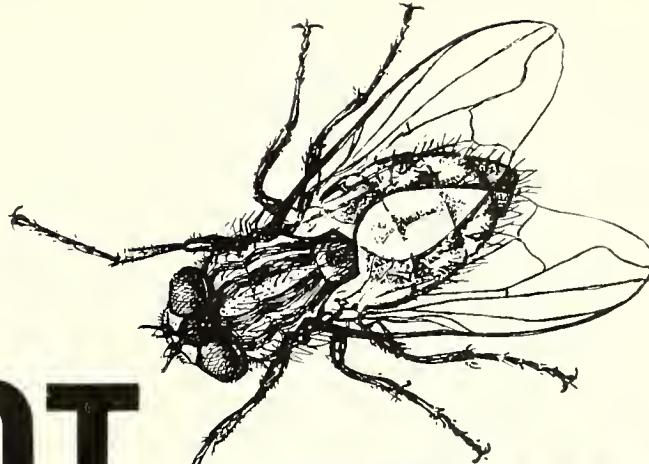
**URINE DERMATITIS** Excellent healing properties where rash exists and will prevent such trouble occurring if applied beforehand. Offensive odour is eliminated.

*Supplies from your usual wholesale house:*

**ILON LABORATORIES**

LORNE STREET · HAMILTON · LANARKSHIRE  
Tel: HAMILTON 410

as long  
as there's a fly alive . . .



# HONEYPOT FLYCATCHERS



will sell and sell and sell—  
because there's no surer,  
easier way of killing flies!

HT17a

Sells to the  
public at

**4<sup>D</sup>**

To Retailers :

Under 3 gross, 36/- per gross  
3 gross and over, 32/- per gross

#### NOW IN NEW DISPLAY BOXES

Honeypot Flycatchers are guaranteed  
to stay fresh in store—and they now  
come in smart, modern quick-sell  
display boxes to boost your sales.

Order now from your usual wholesaler, or send enquiries to : **MELTONIAN-WREN LIMITED • GREATHAM ROAD • WATFORD**

★ ATTRACTIVELY PACKED in AEROSOLS

★ WANTED by every woman in the country who uses nail varnish and

★ PRICED to give you a 50% profit margin. . . .

INSTANT NAIL DRY *dries nail enamel in seconds*. It protects the varnish and doubles its life, prevents chipping and flaking, enriches the cuticles and gives lasting lustre and health to the nails.

INSTANT NAIL DRY is quick and easy—a touch of the Aerosol button is all that is needed.

Available NOW, in Handy Aerosol packs, cost price 6/3, plus 3/1<sup>1</sup>/d. P.T., to retail at 12/6d. direct from

*Maria St. George*  
REGD

LTD. 12 PHILLIMORE TERRACE, W.8. Tel: WESTERN 6534

Sole manufacturers of NICOTEX Nicotine Stain remover etc.

16 million pairs of working hands need  
regular **ROZALEX** protection

In industry and in the home, Rozalex Barrier Creams give safe and effective protection for working hands. New Rozalex Lanolin skin cream is an all-the-family product for use after work, for general skin care and for putting new life in dry, chafed or cracked skin.



**FOR DRY WORK**

Rozalex Barrier Cream No. 1

**FOR WET WORK**

Rozalex Barrier Cream No. 8

**AFTER WORK**

New Rozalex Lanolin Skin Cream



—and where there's a need there's a sale

**ROZALEX** KEEPS HANDS  
CLEAN AND HEALTHY

ROZALEX LTD (The Pioneers of Barrier Creams)  
10 Norfolk Street, Manchester 2 · Blackfriars 1122-4

TGA R16C



**Teacher Beaker**

Regd.

New model in sterilisable high density Polythene, individually boxed in attractive cartons.

Wholesale: 31/4d. doz. + 12½% P.T.

Retail: 4/3d. each.

Made by **J. L. CAPLIN LTD.**

178/180 Homerton High Street, London, E.9.



Order from  
your usual  
Wholesaler

a gift  
a woman  
gives  
herself

**Nymph**

LADIES'  
SAFETY RAZOR

Every woman is a possible buyer of this dainty toilet accessory. Reasonably priced at 3/9., to ensure spontaneous purchase. Complete in moulded case with 2 "Nymph" Blades, in PINK, BLUE, GREEN. "Nymph" Blades in cartons of 6 blades, 1/5d. Obtainable from your usual wholesaler.

A PRECISION MADE

**SOUPLEX**

PRODUCT



THE TOILET ACCESSORY THAT  
**SELLS ON SIGHT**

Six "Nymph" Razors packed in attractive colourful Carton for counter or showcase display.

◀ Backed by National Advertising

SOUPLEX LTD., MORECAMBE, LANCS.

**PRIDE**  
hair beauty PREPARATIONS  
**SELL ON SIGHT!**

*Spraying Hair Lacquer*

Retails at 3/9

The finest of hair lacquers with a delightful perfume available in the new Super Spray 3 oz. polythene bottle boxed in 1 doz. units in eye-catching display outers. Refill sachets also available packed in 1 doz. outers retail at 2/3.



*Egg and Lemon*

**CREAM SHAMPOO** Retails at 3/9

24 shampoos in plastic injector dispenser—Hair and scalp always kept at its best with this high-foaming soapless cream shampoo made from the natural benefits of shell eggs and juice of fresh lemons. Trial—3 shampoos, tubes 9d.; 3 individual shampoos linked together 10½d. all packed in display outers.



**Scalp Milk** Retails at 2/9

An alleviating scalp lotion for use after shampooing and before setting. Allays scurf irritation; quick drying action holds the hair, removes tangles, leaves hair free from all deposits and with a beautiful lustre.



**PRIDE PRODUCTS SELL ON SIGHT !**

These Fast-Selling lines are now being advertised continuously in National magazines.

From your usual wholesaler or direct—

**B. N. FURMAN (PRODUCTIONS) LTD., 133 Fonthill Road, N.4**

# Stock and display

# AMBRE SOLAIRE

Europe's biggest selling Sun Tan Oil

Nation-wide Ambre Solaire Advertising  
will reach millions every week  
throughout the summer months

*Dominating advertisements in*

**DAILY EXPRESS**  
**DAILY MAIL**

**DAILY TELEGRAPH**  
**SUNDAY TIMES**



Ambre Solaire Aerosols  
Packed in half dozens only,  
6 Mousse, 6 Oil,  
or 3 Oil and 3 Mousse

#### AMBRE SOLAIRE OIL AEROSOL

The famous Ambre Solaire Oil packed in an easy to use, long-lasting aerosol, gives the quickest, deepest tan without burning.

Trade Price 9/- per doz. aerosols, plus tax.  
Retail price 15/- per aerosol.

#### AMBRE SOLAIRE MOUSSE AEROSOL

Ambre Solaire in an easy to spread mousse (cream) form, especially suitable for those with sensitive skins.

Trade price 9/- per doz. aerosols, plus tax.  
Retail price 15/- per aerosol.



#### AMBRE SOLAIRE BOTTLE

The sun tan oil that gives the deepest, quickest tan without burning.

Trade price 44/- per doz. bottles, plus tax.  
Retail price 7/3d per bottle.

This popular bottle . . . so familiar to the millions of British visitors to the Continent will again be a fast seller throughout the summer. Order Stock Now!

# AMBRE SOLAIRE

*Gives the quickest, deepest tan without burning*

Regular sales assured  
with  
**Shadeine**  
the  
HOME TINT  
for GREY hair



Still the best home tint for grey hair. All natural shades. Safe and harmless. Trade Prices—1 oz. 29/6 per dozen. 2 oz. 39/3 per dozen. P. Tax 50%. Retail 4/6 and 6/- per bottle respectively.

**ALSO GOLDEN SHADEINE**

For brightening mousey hair. Trade Price—2 oz. size 29/6 per dozen. P. Tax 50%. Retail 4/6 per bottle.

**THE SHADEINE COMPANY LTD.**  
49 CHURCHFIELD RD., ACTON, LONDON, W.3

*Over SIXTY YEARS' Reputation*

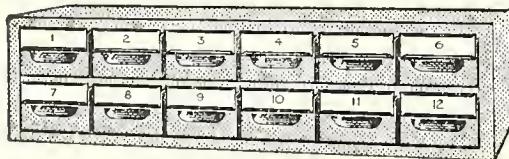
**Shadeine**



FWS

**12 DRAWER UNIT**

12 Type 'A' Drawers. Available in  
any multiple of 6 drawers.  
9" high by 35" wide by 11 $\frac{1}{2}$ " deep.

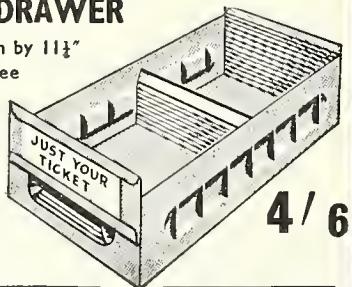


**£4.15.0** *DELIVERED FREE*  
In England, Scotland and Wales

**TYPE 'A' DRAWER**

5" wide by 3" high by 11 $\frac{1}{2}$ "  
long. With one free  
divider per  
drawer.

Extra dividers  
plain 6d. each.



**N.C.BROWN LTD**

SHELVING DIVISION, HEYWOOD, LANCS. PHONE:- 69018 (6 lines)

**TANNIC  
ACID**

ALL QUALITIES

**THE  
BRITISH DYEWOOD  
Company Limited**

19 ST. VINCENT PLACE  
GLASGOW, C.1

**QUEEN**



**Non Irritant  
BEAUTY PRODUCTS**

THE SAFETY FACTOR IN  
EVERY DAY MAKE-UP

Queen beauty products form a complete range  
of toilet and beauty preparations, including  
lipsticks, specially for those women who  
have sensitive skins. RECOMMENDED BY  
THE MEDICAL PROFESSION.

New terms give 33 $\frac{1}{3}$ % discount

Obtainable from Messrs Sangers Ltd., and  
Allied Companies, through your Wholesaler,  
or direct from

**BOUTALLS CHEMISTS LTD.**,  
60 Lambs Conduit St., London, W.C.1



**HARDWOOD APPLICATORS**

100 boxes and over 3/2 per box, 50 to 99 boxes 3/6 per box,  
under 50 boxes 4/- per box. Standard pack, 6 gross to a box

**IMMEDIATE DELIVERY** FROM LONDON  
STOCKS

**TONGUE DEPRESSORS**

LOWEST PRICES SINCE THE WAR  
Size 6 in.  $\times$   $\frac{1}{2}$  in.  $\times$  2 mm. thick. Prime Hardwood perfectly finished  
Boxed 100's Minimum order 10,000  
Wholesale Houses only supplied

**ASHWOOD TIMBER INDUSTRIES LTD.**

Specialist in Veneer and Plywood Products for all Trades  
**IBEX HOUSE** • **MINORIES** • **LONDON, E.C.3**  
Tel.: ROYal 2494 Cables: ASHTIM, LONDON

*The*  
**CHEMIST AND DRUGGIST**  
 CLASSIFIED ADVERTISEMENTS

Telephone: CENTRAL 6565

Address Box Number Replies to : THE CHEMIST AND DRUGGIST, 28 ESSEX ST., STRAND, LONDON, W.C.2

Specially spaced Advertisements, including :—Public and Legal Notices, Sale by Auction, Appointments, Contract Work, Patents, Partnerships, 20/- per  $\frac{1}{2}$  inch minimum and pro rata. Box 2/-. Clearances and Wants, Businesses for Disposal and Wanted, Premises, Agents Wanted, Agencies Wanted, Miscellaneous, 20/- for 36 words minimum; then 6d. per word. Box 2/-. Situations Vacant, 15/- for 36 words minimum, then 6d. per word. Box 2/-. Situations Wanted, 4/- for 18 words minimum then 3d. per word. Box 1/-. Specially displayed advertisements with rule all round, 50/- per inch minimum.

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**BRANCHES: BIRMINGHAM • BOURNEMOUTH • LEEDS • LIVERPOOL • SHEFFIELD • CARDIFF**

### PREMISES FOR SALE

**DOUGLAS, ISLE OF MAN.** Low income tax. No surtax or death duties. Old-established chemist's business with freehold property shop and house in principal shopping street, as a going concern. Owner retiring. Details, apply, H. J. Johnson, F.A.L.P.A., Estate Agent, 7 Athol Street, Douglas. C 3666

### BUSINESSES FOR SALE

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359 Brighton Road,  
South Croydon,  
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Telephone: Croydon 3861/2

**DRUG STORE** : LOCK-UP SHOP; PROMINENT POSITION, MAIN ROAD, S.E. LONDON; 3 large Windows. Turnover £70 p.w. (Neglected.) 21 years' lease at £350 p.a. IDEAL FOR DISPENSING CHEMIST. Price £750 s.a.v. C 3677

**COSMETIC COMPANY FOR SALE.** Exclusive Commonwealth rights for famous Italian products. Tax losses £10,000 available. Box C 3678.

#### NEW ZEALAND PHARMACY

#### FOR SALE

This old-established pharmacy in a country town offers an excellent opportunity for a pharmacist wishing to emigrate to this young, progressive country. Turnover £20,000 per annum. Purchase price £7,500. Three-bedroom house available. No opposition. Reply to:

Tidswell's Pharmacy Limited,  
Manai, Taranaki,  
New Zealand

C 3660

### APPOINTMENTS

#### BARNET GENERAL HOSPITAL, WELLHOUSE LANE, BARNET, HERTS

(490 beds)

Senior Pharmacist required in this modern and well-equipped pharmacy (category V Hospital). Barnet is terminal of Northern Line (London Transport). Whitley Council salary scale with London Weighting. Applications to Hospital Secretary (Phone: Barnet 7421), with names of two referees. C 6365

#### BLACK NOTLEY HOSPITAL, BRAINTREE, ESSEX

Assistant-in-Dispensing

required. Permanent and pensionable appointment. Salary and conditions according to Whitley Council Scales. Previous Hospital experience, Certificate of the Society of Apothecaries, R.A.M.C., R.A.F., or equivalent qualifications taken into account for commencing salary. Interesting post, covering wide sphere of activity. Good residential accommodation available if required. Applications giving age, present and previous experience with names and addresses of two referees to Hospital Secretary from whom further details may be obtained. C 6588

#### CENTRAL GROUP HOSPITAL MANAGEMENT COMMITTEE

Senior Pharmacist

for Bethnal Green Hospital. Modern department approved for training students. Salary scale £770—£1,010 p.a. plus higher qualification allowance and London Weighting. Please apply to the Group Secretary, 213 Kingsland Road, London, E.2. C 553

#### BOSTON COMBINED HOSPITALS, LINCOLNSHIRE

(319 beds)

Locum Chief Pharmacist (Category III) required from August 28 to September 10, 1961, inclusive. Salary £23 12s. 6d. per week. Apply to the Hospital Secretary, Boston General Hospital, Boston, immediately. C 562

#### CENTRAL GROUP HOSPITAL MANAGEMENT COMMITTEE

Locum Pharmacist

Holiday relief vacancies—  
12th—24th June, 1961  
Salary 18 guineas p.w. Applications with full details to Chief Pharmacist, Metropolitan Hospital, London, E.8. C 561

### 184 STRAND, W.C.2

Tel: TEMPLE BAR 9212/3 & 6340

### EAST HAM MEMORIAL HOSPITAL, SHREWSBURY ROAD, E.7

(201 beds)

Assistant-in-Dispensing

Salary scale £425 (at age 22)—£575 p.a. plus £50 p.a. allowance if suitably qualified, plus London Weighting £20/£30 p.a. Part-time applicants considered. Full details from Chief Pharmacist (Tel.: GRA 3322). Apply to Hospital Secretary. C 6595

#### HAMMERSMITH HOSPITAL & POST-GRADUATE MEDICAL SCHOOL,

#### DU CANE ROAD, LONDON, W.12

Pharmacist

required at above General Post-graduate Teaching Hospital (Category V). Post offers varied work and excellent experience. Pleasant working conditions. Previous experience not essential. Whitley salary scale £690—£920 per annum plus London Allowance. Commencing salary within this scale according to experience. Applications stating age, qualifications and experience, and names of two referees to Chief Pharmacist by 17th June. C 6592

#### HAMMERSMITH HOSPITAL & POSTGRADUATE MEDICAL SCHOOL,

#### DU CANE ROAD, LONDON, W.12

Locum Pharmacist

required at above General Teaching Hospital for several weeks June and July, commencing as soon as possible. Salary 18 guineas per week. Apply, giving particulars of experience to Chief Pharmacist. C 6597

#### HERTS AND ESSEX GENERAL HOSPITAL, BISHOP'S STORTFORD, HERTS

Senior Pharmacist or Pharmacist

required. Commencing salary for Health Service applicants £690—£1,010 according to previous Hospital Service and for new entrants to N.H.S. £690—£815 p.a. Salary and conditions of service in accordance with Whitley Pharmaceutical Council. Successful applicant, who need not have had previous hospital experience, will be under direction of Chief Pharmacist and primarily attached to Herts and Essex General Hospital (341 beds), but may be required to work from time to time in same Group at Hertford County Hospital (166 beds). Applications, giving age, experience and qualifications, together with name and address of two referees, to Hospital Secretary. C 6571

## ERNEST J. GEORGE & CO.

**329 HIGH HOLBORN, LONDON W.C.1.**

*Professional Valuers to the Pharmaceutical Trade.—Wholesale, Retail and Hospital Stocks. Branches throughout England and Scotland.*

Telephone: HOLBORN 7406/7

**Appointments—Continued****HEATHERWOOD HOSPITAL,  
ASCOT**

Pharmacist

required for modern well-equipped department. Apply, with full details, and two referees, to Secretary. C 6580

**LITTLEMORE HOSPITAL,  
LITTLEMORE, nr. OXFORD**

Assistant-in-Dispensing

required. Hours 9 a.m. to 5 p.m., alternate Saturdays 9 a.m. to 12 a.m. Whitley Council salary scale and conditions of service. Applications stating age, experience and names of two referees to Group Secretary. C 6578

**LONDON JEWISH HOSPITAL,  
STEPNEY GREEN, E.1**

Locum Pharmacist

required at the above hospital from 5th June. Salary £18 18s. per week. Applications in writing to be sent to the Chief Pharmacist. C 6584

**NETHER EDGE HOSPITAL,  
SHEFFIELD, 11**

Category II Locum Pharmacist

(single-handed) required for two weeks (8th-24th July). Residence available for a lady. Apply to the Hospital Secretary. C 3682

**NORTH WIRRAL HOSPITAL  
MANAGEMENT COMMITTEE,  
VICTORIA CENTRAL HOSPITAL  
MEDICAL UNIT,  
MILL LANE,  
WALLASEY, CHESHIRE**

Pharmacist

Applications are invited for the above appointment. Salary £690 x £30 (3)—£780 x £35 (4)—£920 per annum.

Conditions of Service in accordance with Circular PH 26 of the Whitley Council.

Applications with names and addresses of two referees to Hospital Secretary. C 6570

**PONTYPOOL & DISTRICT  
HOSPITAL**

Senior Pharmacist

required. Salary £770—£1,010. Assistance will be given in obtaining accommodation in the locality if required. Write giving experience and two referees to Group Secretary, 64 Cardiff Road, Newport. C 6591

**ROYAL FREE HOSPITAL,  
GRAY'S INN ROAD, W.C.1**

Assistant-in-Dispensing

required to assist with the supply of drugs to Branch Hospitals. Applicants must be 21 years or over. Salary in accordance with Whitley Scale ranging from £360 to £575 plus London Weighting and £50 qualification allowance. Applications with names of two referees should be addressed to the Group Chief Pharmacist. C 6541

**SOUTHEND-ON-SEA HOSPITAL  
MANAGEMENT COMMITTEE**

Post-graduate Student

required in the Pharmacies of the Hospitals in the Southend-on-Sea Group. Salary £460 per annum. The Hospitals are situated in pleasant surroundings and the post offers excellent opportunities for experience in all branches of pharmaceutical work including dispensing for in-patients and for patients from a busy Consultative Outpatients' Department, manufacturing, sterilising, dressings and instruments. Students who contemplate sitting the final examination this year will be considered for appointment in September. Applications stating age, particulars of education, etc., with the names of two referees, should be sent to the Secretary, General Hospital, Southend-on-Sea, as soon as possible. C 6563

**ST. GILES' HOSPITAL,  
CAMBERWELL, S.E.5**

Assistant-in-Dispensing

required for busy General Hospital. Excellent all-round experience. Salary according to age and experience. Apply Chief Pharmacist, St. Giles' Hospital, Camberwell, S.E.5. C 6596

**SPRINGFIELD HOSPITAL,  
LONDON, S.W.17**

Part-time Pharmacist

required. Salary 38s. 8d. per session of four hours, up to a maximum of six sessions per week.

Applications to the Group Secretary, Springfield Hospital, Beechcroft Road, London, S.W.17, giving age, qualifications, details of experience and names of two referees. C 562

**MILES LABORATORIES LIMITED**

Manufacturers of " ALKA-SELTZER " and a range of

**DIAGNOSTIC REAGENT PRODUCTS**

require a

**PRODUCT DEVELOPMENT CHEMIST**

To assist in the development of new Pharmaceutical products and the improvement of existing processes. This is in addition to our existing staff as part of an expansion programme.

Applicants should be Graduate Pharmacists or Chemists, age not more than 30, with experience of Pharmaceutical development.

The factory is situated in a pleasant country district near the sea-coast. The appointment will carry an attractive salary and first-class Life Assurance and Superannuation Scheme.

**Apply:**

Personnel Officer,  
**Miles Laboratories Limited,**  
Bridgend Industrial Estate,  
Glamorgan.

C 6499

**KING EDWARD VII HOSPITAL,  
WINDSOR**

Assistant-in-Dispensing

required. Applications with details of service to Secretary. C 6558

**SITUATIONS VACANT**

**QUALIFIED LADY DISPENSER** required for group practice of four doctors to assist present dispenser with dispensing and general practice management. Details from Dr. T. E. Ormerod, 52 Linden Avenue, Kettering, Northants. Tel.: Kettering 2104. C 3653

**RETAIL (HOME)**

**BANSTEAD, SURREY.** Lady assistant required for senior position for counter, display and general duties. No dispensing. Must be able to control staff and buy stock. All main cosmetic agencies. Good wages and yearly bonus to right person. Holiday arrangements honoured. Overall supplied. Modern shop. Apply stating when available for interview with usual details to Mr. Woollatt, 30 High Street, Banstead (Phone: Burgh Heath 720 daytime, Burgh Heath 2024 evenings or Sundays. C 3614

**DORSET.** Dispensing assistant required, lady or gentleman, for busy good class dispensary. Permanent position, good salary and conditions. Apply giving full particulars of experience to L. F. Pickford, 11 South Street, Wareham, Dorset. C 3690

**THORNTON HEATH.** Dispensing assistant, lady, required for middle-class family business. Good working conditions, pleasant personality and able to work with other staff. Please give details of age, experience, etc., to Arnold M. Gee, Limited, 39 High Street, Thornton Heath, Surrey. C 3691

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**LOCUM** Pharmacist required for periods June 5-July 8 and August 19-September 16, 1961. Apply D. Desmond & Co., Ltd., 17 Freemasons Road, London, E.16, or 'phone ALbert Dock 2254. C 3679

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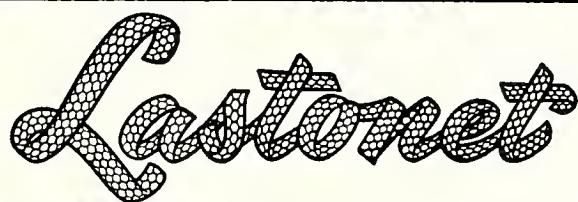
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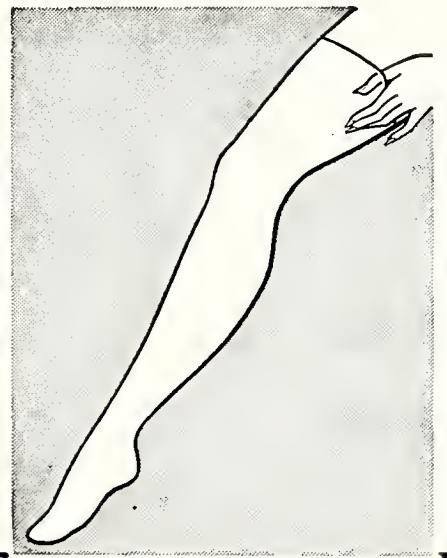
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